

# Product Datasheet

## GRP78/HSPA5 Antibody - BSA Free NBP1-06274

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 12/20/2023 v.20.1

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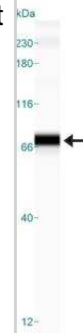
**NBP1-06274**

GRP78/HSPA5 Antibody - BSA Free

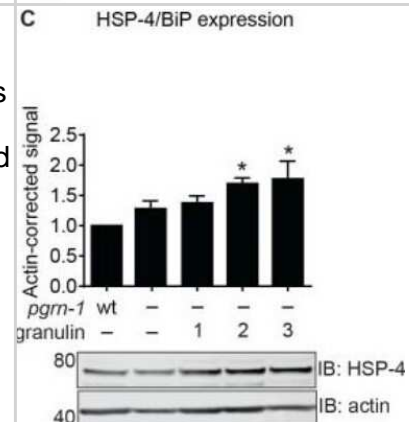
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	78 kDa
Product Description	
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse, Rat, C. elegans, Chicken, Drosophila, Sheep, Zebrafish
Reactivity Notes	Use in Zebrafish reported in scientific literature (PMID:34327238) C. elegans reactivity reported in scientific literature (PMID: 31398187).
Marker	ER Stress Marker
Immunogen	Synthetic peptide made to an internal portion of human GRP78 (within residues 250-300). [Swiss-Prot# P11021]
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 0.5 ug/ml, Simple Western 1:25, Flow Cytometry 1:150. Use reported in scientific literature (PMID 20208072), Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:50. Use reported in scientific literature (PMID 24089213), Immunohistochemistry-Paraffin reported in scientific literature (PMID 24089213), Immunohistochemistry Free-Floating reported in scientific literature (PMID 26329458)
Application Notes	In Western blot a band is seen at ~78 kDa.  In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

## Images

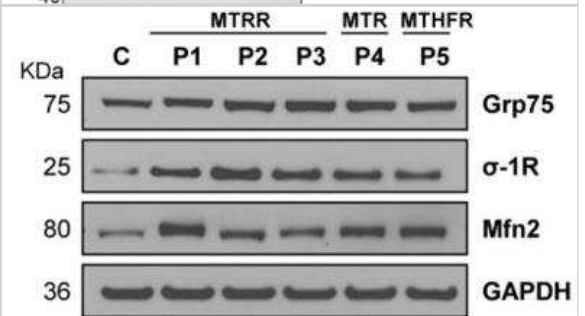
Simple Western: GRP78/HSPA5 Antibody [NBP1-06274] - Image shows a specific band for GRP78 in 0.1 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



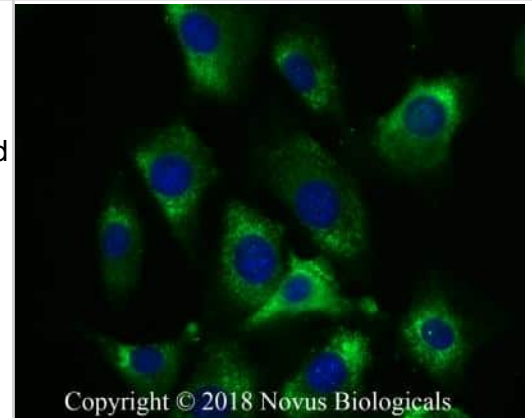
Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - *C. elegans* granulins impair organismal fitness and resistance to ER stress. Total worm lysates from synchronized day 1 adult granulin-expressing animals were immunoblotted with an anti-GRP78/HSPA5 antibody (3 biological replicates). Anti-actin was used as a loading control. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pgen.1008295>), licensed under a CC-BY license.



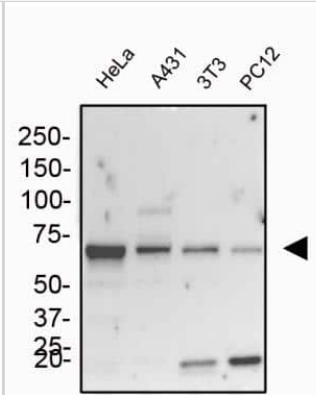
Western Blot: GRP78/HSPA5 Antibody [NBP1-06274] - Analysis of MAM-associated protein levels in control and patients' fibroblasts. (A) Equal amounts from one control and the five patients were loaded (50 ug of total cell lysates) and subjected to Western Blot with anti-Grp75, anti-sigma-1R and anti-Mfn2 antibodies. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of three independent experiments. PLoS One. 2016 Mar 9;11(3):e0150357. doi: 10.1371/journal.pone.0150357



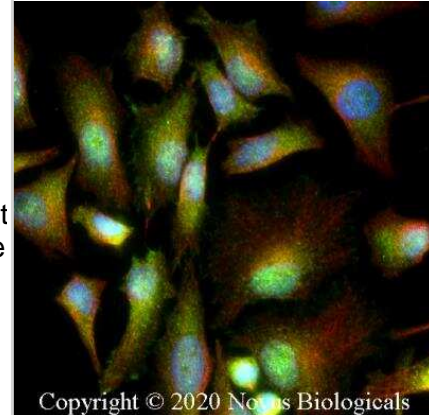
Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP1-06274] - NIH-3T3 cells were fixed and permeabilized for 10 minutes using -20C MeOH. The cells were incubated with anti-GRP78/HSPA5 at 2 ug/mL overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



**Western Blot: GRP78/HSPA5 Antibody [NBP1-06274]** - Total protein from human HeLa and A431 cells, mouse 3T3 cells and rat PC12 cells was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/mL anti-GPR78 in blocking buffer and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.

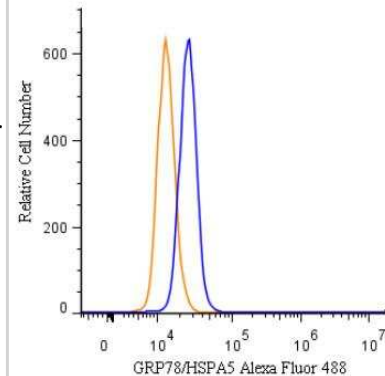


**Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP1-06274]** - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton-X100. The cells were incubated with anti-GRP78/HSPA5 at 5 ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



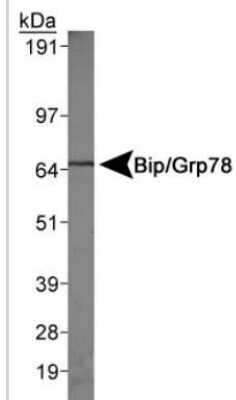
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**Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274]** - An intracellular stain was performed on NIH3T3 cells with GRP78/HSPA5 Antibody NBP1-06274AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.

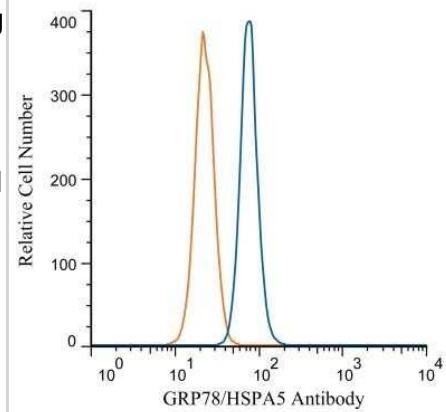


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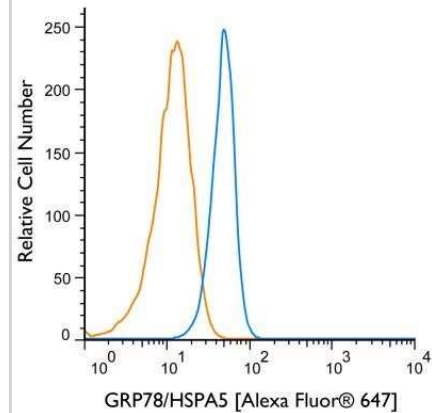
**Western Blot: GRP78/HSPA5 Antibody [NBP1-06274]** - Detection of Bip/Grp78 on HeLa whole cell extracts using NBP1-06274.



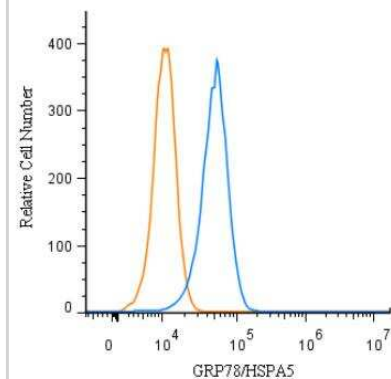
Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - Analysis using Alexa Fluor (R) 488 conjugate of NBP1-06274. An intracellular stain was performed on HeLa cells with GPR78/HSPA5 antibody NBP1-06274 (blue) and a matched isotype control NBP2-24893 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. 1 ug of antibody was added to 100 uL of staining buffer and cells were incubated for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - An intracellular stain was performed on Jurkat cells with Alexa Fluor 647 conjugate of GPR78/HSPA5 antibody NBP1-06274AF647 (blue) and a matched isotype control NBP2-24893AF647 (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 2 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

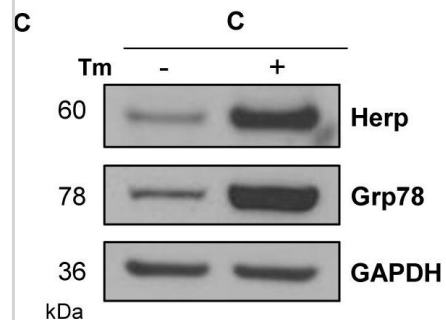
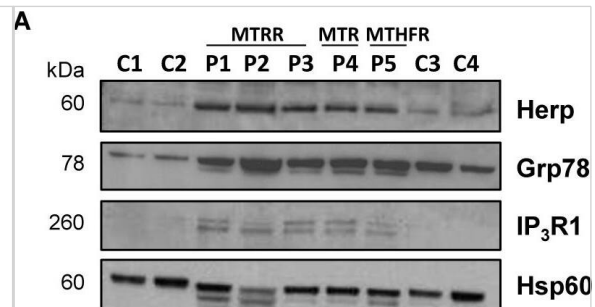


Flow Cytometry: GRP78/HSPA5 Antibody [NBP1-06274] - An intracellular stain was performed on HeLa with NBP1-06274 and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by Rabbit IgG (H+L) Cross-Adsorbed Secondary Antibody, Dylight 550.

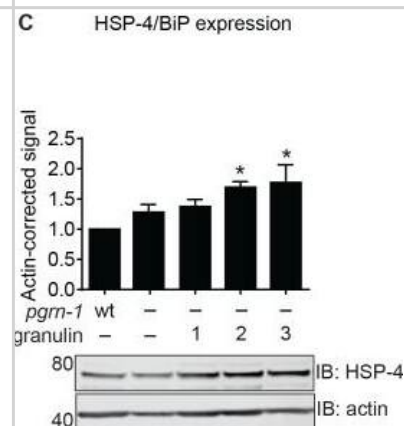


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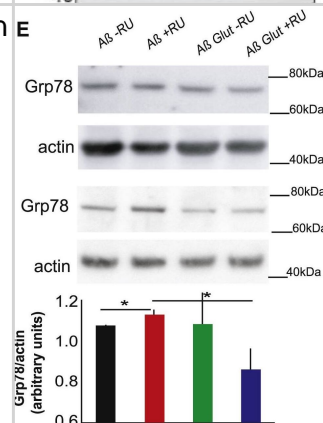
Analysis of protein levels involved in ER stress and Ca<sup>2+</sup> homeostasis and processing of mRNA XBP1 in control and patients-derived fibroblasts. (A) Equal amounts from controls and patients were loaded (50 ug of total cell lysates) and subjected to Western Blot with anti-Herp, anti-Grp78 and anti-IP3R1 antibodies. We used anti-Hsp60 antibody to ensure equal amounts of protein loaded in each lane. This result is representative of three independent experiments. Protein quantification was performed by laser densitometry. The ratios between proteins/Hsp60 for each cell line were calculated to determine the expression fold-change relative to control. (B) Data represent mean +/- standard deviation of three independent experiments. (C) Equal amounts from controls were loaded (50 ug of total cell lysates) and subjected to Western Blot with anti-Herp and anti-Grp78 antibodies. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of two independent experiments. (D) Equal amounts from control and patients were loaded (50 ug of total cell lysates) and subjected to Western Blot with anti-phospho-PERK antibody. We used anti-GAPDH antibody to ensure equal amounts of protein loaded in each lane. This result is representative of two independent experiments. (E) RT-PCR analysis of the processing of mRNA XBP1 transcription factor. Tm: tunicamycin; u: XBP1 unspliced form; s: XBP1 spliced form. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0150357>), licensed under a CC-BY licence.



*C. elegans* granulins impair organismal fitness and resistance to ER stress. (C) Total worm lysates from synchronized day 1 adult granulin-expressing animals were immunoblotted with an anti-HSP-4/BiP antibody (3 biological replicates). Anti-actin was used as a loading control. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/31398187>), licensed under a CC-BY licence.

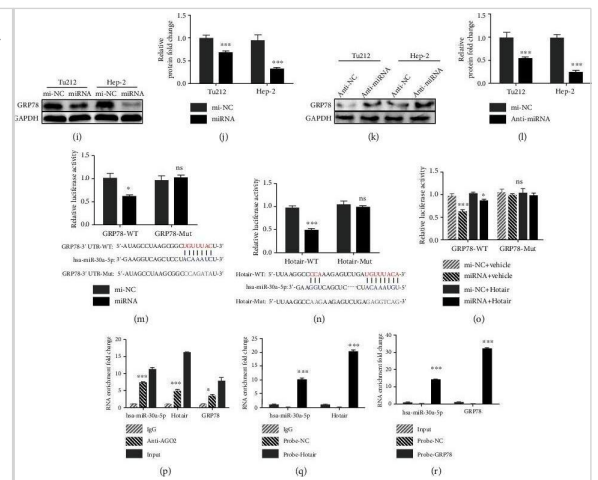


UPR Components Activated in Abeta-Expressing Flies Are Induced Even Further by Glut1 Overexpression. (E) Western blot of Grp78 in 14-day-old flies of the same genotypes, plotted below as means +/- SEM (n = 6-16). The image is a representative gel of the same samples. Genotypes: UAS Abeta; elavGS, UAS Abeta/UAS Glut1; elavGS. \*p <= 0.05; \*\*p <= 0.01, by ANOVA. See also Figure S2. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27524482>), licensed under a CC-BY licence.





GPR50 interacts with T $\beta$ RI and its expression is upregulated by TGF $\beta$ . a Tandem affinity purification of naive HEK293T cells stably expressing GPR50 $\Delta$ 4-TAP. After purification, mass spectrometry was employed for protein identification. b Left panel shows confocal images of GPR50 and T $\beta$ RI staining in the lining of the third ventricle of brain slices of wt (top) and GPR50ko mice (bottom). Right panel visualizes T $\beta$ RI/GPR50 interaction by proximity ligation assay (PLA) in the median eminence (ME) and third ventricle (3 V) of wt (top) and GPR50ko (bottom) mice (scale: 100  $\mu$ m). White arrows depict immunoreactive (IR) regions. See also Supplementary Fig. 1a. c Confocal images of GPR50 (red) and T $\beta$ RI (green) staining in primary rat tanycytes (scale: 10  $\mu$ m). d Colocalization of GPR50 (red) and T $\beta$ RI (green) in NCI-H520 cells. (scale: 10  $\mu$ m). e Co-immunoprecipitation of GPR50 and T $\beta$ RI in lysates of primary rat tanycyte cultures. Lysates with IgG served as negative control. f Co-immunoprecipitation of GPR50 and T $\beta$ RI in the lysates of NCI-H520 after silencing either GPR50 (si-GPR50) or T $\beta$ RI (si-T $\beta$ RI). Control si-RNA (si-Ctrl) served as control. g, h Co-immunoprecipitation of GPR50 and T $\beta$ RI in lysates of MDA-MB231 cells (g) and cortex (h) isolated from wild type (wt) or GPR50ko mice. IgG served as negative control. i Upper part depicts schematic representation of BRET assay to study the interaction between T $\beta$ RI-Rluc8 and GPR50-YFP or T $\beta$ RI-YFP (left and middle scheme) and right scheme between T $\beta$ RI-Rluc8 and T $\beta$ RII-YFP. Lower part shows BRET donor saturation curves in HEK293T cells (left: constant expression level of T $\beta$ RI-Rluc8 and increasing levels of T $\beta$ RI-YFP, GPR50 $\Delta$ 4-YFP or GPR50wt-YFP; right: constant expression level of T $\beta$ RI-Rluc8 and increasing levels of GPR50 $\Delta$ 4-YFP or T $\beta$ RII-YFP with TGF $\beta$  stimulation (0.6 nM, 30 min at 37  $^{\circ}$ C)). IR-YFP and OBRa-YFP served as negative control. BRET signals were normalized to BRETmax values. Curves are obtained from three independent experiments performed in triplicates. j NCI-H520 cells were starved and stimulated for 24 h with TGF $\beta$  (2 ng/mL). GPR50 expression was checked by Immunoblotting and Q-PCR. (Mean  $\pm$  s.e.m., n = 3 independent experiments, \*p < 0.05; \*\*p < 0.01, two-tailed unpaired Student's t-test). Representative results are shown for e–h and i. See also Supplementary Fig. 1 Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41467-018-03609-x>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Catterson J, Minkley L, Aspe S et al. Protein retention in the endoplasmic reticulum rescues A $\beta$  toxicity in *Drosophila*. *Neurobiology of Aging* 2023-09-21 [PMID: 37837732] (WB, *Drosophila*)

Details:

1:1000 dilution

Shastri S, Shinde T, Woolley KL et al. Short-Chain Naphthoquinone Protects Against Both Acute and Spontaneous Chronic Murine Colitis by Alleviating Inflammatory Responses *Frontiers in Pharmacology* 2021-08-23 [PMID: 34497514]

Shrestha S, Erikson G, Lyon J et al. Aging compromises human islet beta cell function and identity by decreasing transcription factor activity and inducing ER stress *Science advances* 2022-10-07 [PMID: 36197983] (IHC-P, Human)

Lemoine H, Raud L, Foulquier F et al. Monoallelic pathogenic ALG5 variants cause atypical polycystic kidney disease and interstitial fibrosis *American journal of human genetics* 2022-07-20 [PMID: 35896117]

Aggarwal P, Liu Z, Cheng GQ et al. Disruption of the lipolysis pathway results in stem cell death through a sterile immunity-like pathway in adult *Drosophila* *Cell reports* 2022-06-21 [PMID: 35732115] (IF/IHC, *Drosophila*)

Yuan X, Shen Q, Ma W Long Noncoding RNA Hotair Promotes the Progression and Immune Escape in Laryngeal Squamous Cell Carcinoma through MicroRNA-30a/GRP78/PD-L1 Axis *Journal of immunology research* 2022-04-04 [PMID: 35419461] (WB, Human)

Li Q, Fan X, Lu W et al. Novel NPR2 Gene Mutations Affect Chondrocytes Function via ER Stress in Short Stature Cells 2022-04-08 [PMID: 35455946] (WB)

Shaiken T, Grimm S, Siam M et al. Transcriptome, Proteome, and Protein Synthesis Within the Intracellular Cytomatrix *SSRN Electronic Journal* 2022-03-31 [PMID: 36824274]

Chen X, Li Z, Lv y et al. Comparative proteomic identification of capacitated and non-capacitated sperm of yanbian yellow Cattle *Theriogenology* 2022-03-01 [PMID: 35421774] (WB, Bovine)

Rossin F, Avitabile E, Catarinella G et al. Reticulon-1C Involvement in Muscle Regeneration *Metabolites* 2021-12-08 [PMID: 34940613]

Asahina, M, Fujinawa, R Et al. Ngly1  $-/-$  rats develop neurodegenerative phenotypes and pathological abnormalities in their peripheral and central nervous systems. *Hum Mol Genet* 2020-06-27 [PMID: 32259258] (FLOW, Human)

Stojkowska I, Wani WY, Zunke F Et al. Rescue of alpha-synuclein aggregation in Parkinson's patient neurons by synergistic enhancement of ER proteostasis and protein trafficking *Neuron* 2021-11-09 [PMID: 34793693]

More publications at <http://www.novusbio.com/NBP1-06274>





## Procedures

### Western Blot Protocol for GRP78/HSPA5 Antibody (NBP1-06274)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

### Immunohistochemistry-Paraffin Protocol for GRP78/HSPA5 Antibody (NBP1-06274)

#### Immunohistochemistry-Paraffin Embedded Sections

##### Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes (keep slides in the sodium citrate buffer all the time).

##### Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in PBS for 5 minutes.
3. Block each section with 100-400 ul blocking solution (1% BSA in PBS) for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul HRP polymer conjugated secondary antibody. Incubate 30 minutes at room temperature.
7. Wash sections three times in wash buffer for 5 minutes each.
8. Add 100-400 ul DAB substrate to each section and monitor staining closely.
9. As soon as the sections develop, immerse slides in deionized water.
10. Counterstain sections in hematoxylin.
11. Wash sections in deionized water two times for 5 minutes each.
12. Dehydrate sections.
13. Mount coverslips.

**Immunocytochemistry/Immunofluorescence Protocol for GRP78/HSPA5 Antibody (NBP1-06274)**

## Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and wash the cells briefly in PBS. Add 10% formalin to the dish and fix at room temperature for 10 minutes.
2. Remove the formalin and wash the cells in PBS.
3. Permeablize the cells with 0.1% Triton X100 or other suitable detergent for 10 min.
4. Remove the permeablization buffer and wash three times for 10 minutes each in PBS. Be sure to not let the specimen dry out.
5. To block nonspecific antibody binding, incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
6. Add primary antibody at appropriate dilution and incubate overnight at 4C.
7. Remove primary antibody and replace with PBS. Wash three times for 10 minutes each.
8. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
9. Remove secondary antibody and replace with PBS. Wash three times for 10 minutes each.
10. Counter stain DNA with DAPI if required.



**Flow (Intracellular) Protocol for GRP78/HSPA5 Antibody (NBP1-06274)**

## Protocol for Flow Cytometry Intracellular Staining

## Sample Preparation.

1. Grow cells to 60-85% confluency. Flow cytometry requires between  $2 \times 10^5$  and  $1 \times 10^6$  cells for optimal performance.
2. If cells are adherent, harvest gently by washing once with staining buffer and then scraping. Avoid using trypsin as this can disrupt certain epitopes of interest. If enzymatic harvest is required, use Accutase, Collagenase, or TrypLE Express for a less damaging option.
3. Reserve 100  $\mu$ L for counting, then transfer cell volume into a 50 mL conical tube and centrifuge for 8 minutes at 400 RCF.
  - a. Count cells using a hemocytometer and a 1:1 trypan blue exclusion stain to determine cell viability before starting the flow protocol. If cells appear blue, do not proceed.
4. Re-suspend cells to a concentration of  $1 \times 10^6$  cells/mL in staining buffer (NBP2-26247).
5. Aliquot out 100  $\mu$ L samples in accordance with your experimental samples.

Tip: When cell surface and intracellular staining are required in the same sample, it is advisable that the cell surface staining be performed first since the fixation and permeabilization steps might reduce the availability of surface antigens.

## Intracellular Staining.

Tip: When performing intracellular staining, it is important to use appropriate fixation and permeabilization reagents based upon the target and its subcellular location. Generally, our Intracellular Flow Assay Kit (NBP2-29450) is a good place to start as it contains an optimized combination of reagents for intracellular staining as well as an inhibitor of intracellular protein transport (necessary if staining secreted proteins). Certain targets may require more gentle or transient permeabilization protocols such as the commonly employed methanol or saponin-based methods.

## Protocol for Cytoplasmic Targets:

1. Fix the cells by adding 100  $\mu$ L fixation solution (such as 4% PFA) to each sample for 10-15 minutes.
2. Permeabilize cells by adding 100  $\mu$ L of a permeabilization buffer to every  $1 \times 10^6$  cells present in the sample. Mix well and incubate at room temperature for 15 minutes.
  - a. For cytoplasmic targets, use a gentle permeabilization solution such as 1X PBS + 0.5% Saponin or 1X PBS + 0.5% Tween-20.
  - b. To maintain the permeabilized state throughout your experiment, use staining buffer + 0.1% of the permeabilization reagent (i.e. 0.1% Tween-20 or 0.1% Saponin).
3. Following the 15 minute incubation, add 2 mL of the staining buffer + 0.1% permeabilizer to each sample.
4. Centrifuge for 1 minute at 400 RCF.
5. Discard supernatant and re-suspend in 100  $\mu$ L of staining buffer + 0.1% permeabilizer.
6. Add appropriate amount of each antibody (eg. 1 test or 1  $\mu$ g per sample, as experimentally determined).
7. Mix well and incubate at room temperature for 30 minutes- 1 hour. Gently mix samples every 10-15 minutes.
8. Following the primary/conjugate incubation, add 1-2 mL/sample of staining buffer +0.1% permeabilizer and centrifuge for 1 minute at 400 RCF.
9. Wash twice by re-suspending cells in staining buffer (2 mL for tubes or 200  $\mu$ L for wells) and centrifuging at 400 RCF for 5 minutes. Discard supernatant.
10. Add appropriate amount of secondary antibody (as experimentally determined) to each sample.
11. Incubate at room temperature in dark for 20 minutes.
12. Add 1-2 mL of staining buffer and centrifuge at 400 RCF for 1 minute and discard supernatant.
13. Wash twice by re-suspending cells in staining buffer (2 mL for tubes or 200  $\mu$ L for wells) and centrifuging at 400 RCF for 5 minutes. Discard supernatant.
14. Resuspend in an appropriate volume of staining buffer (usually 500  $\mu$ L per sample) and proceed with analysis on your flow cytometer.





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### **Products Related to NBP1-06274**

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NB800-PC1	HeLa Whole Cell Lysate
NBP1-06274PEP	GRP78/HSPA5 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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