

Product Datasheet

GRP78/HSPA5 Antibody NB100-56411

Unit Size: 0.1 mg

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

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NB100-56411

GRP78/HSPA5 Antibody

Product Information	
Unit Size	0.1 mg
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	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

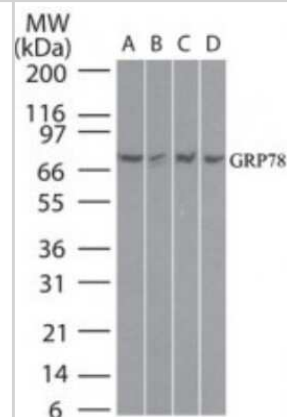
Product Description	
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse
Reactivity Notes	Predicted to react with Chimpanzee, Canine, Macaque, Rat, Xenopus and Zebrafish.
Marker	ER Stress Marker
Immunogen	A portion of amino acids 550-600 of human GRP78 was used as the immunogen.

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-3 ug/ml, Simple Western 1:250, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:10-1:500. Use reported in scientific literature (Egawa et al (2011)), Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

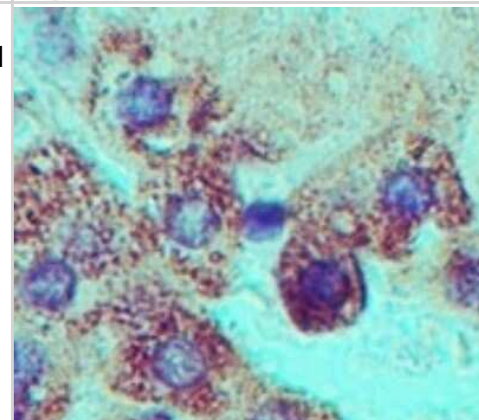


Images

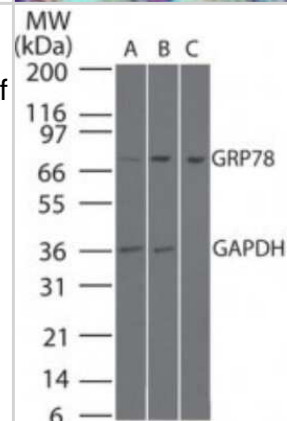
Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in A) HeLa, B) human liver, C) mouse liver, and D) rat liver lysate using NB100-56411 at 2 ug/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were use for this test.



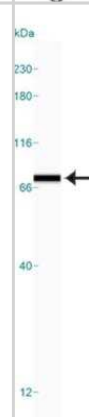
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in formalin-fixed, paraffin-embedded mouse liver tissue using this antibody at 5 ug/ml.



Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in mouse liver tissue enriched using Endoplasmic Reticulum Enrichment Kit and 1 ug/ml of NB100-56411 and 0.25 ug/ml of anti-GAPDH loading control. Lane A contains 20 ugs of whole mouse liver lysate, lane B contains 20 ugs of total ER fraction, and lane C contains 20 ugs of rough ER fraction.



Simple Western: GRP78/HSPA5 Antibody [NB100-56411] - Simple Western lane view shows a specific band for GRP78/HSPA5 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



Publications

Li T, Yang Y, Li Y et al. Platelets mediate inflammatory monocyte activation by SARS-CoV-2 Spike protein The Journal of clinical investigation 2021-12-29 [PMID: 34964720] (WB, Human)

Panaretakis Theocharis, Kepp Oliver, Brockmeier Ulf et al. Mechanisms of pre-apoptotic calreticulin exposure in immunogenic cell death. EMBO J. 2009-03-04 [PMID: 19165151] (Human)

Egawa N, Yamamoto K, Inoue H et al. The endoplasmic reticulum stress sensor, ATF6a, protects against neurotoxin-induced dopaminergic neuronal death. J Biol Chem. 2011-03-11 [PMID: 21131360] (WB, ICC/IF, Mouse)

Details:

BiP/GRP78 (IMG-5228A). WB & IF/ICC: Mouse midbrain or striatum from ATF6 alpha WT +/+ or ATF6 alpha kO -/- mice, Fig 2B.

Sharma A, Masri J, Jo OD et al. Protein kinase C regulates internal initiation of translation of the GATA-4 mRNA following vasopressin-induced hypertrophy of cardiac myocytes. J Biol Chem. 2007-03-30 [PMID: 17284439] (WB)

Details:

BiP/GRP78 (IMG-5228A). WB: H9c2 ventricular cardiomyocytes treated with arginine vasopressin (AVP), Fig 8A.





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Products Related to NB100-56411

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00003309-P01-10ug	Recombinant Human GRP78/HSPA5 GST (N-Term) Protein

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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