

# Product Datasheet

## GAPDH Antibody (13H12) - Azide and BSA Free NBP2-80749

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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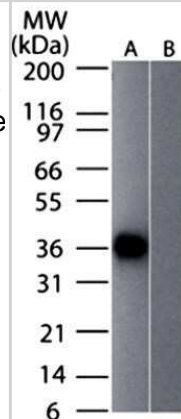
**NBP2-80749**

GAPDH Antibody (13H12) - Azide and BSA Free

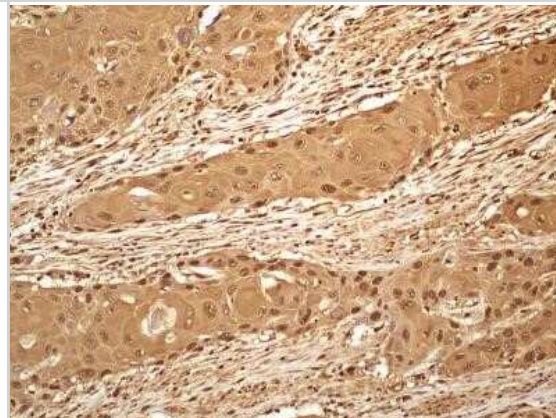
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	13H12
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	36 kDa
Product Description	
Host	Mouse
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Drosophila, Primate, Monkey, Sheep
Reactivity Notes	Based upon 91% sequence similarity with immunogen, this antibody is predicted to react with several species. Immunogen shows 82% similarity to Xenopus and Zebrafish. Rat, sheep, and Monkey reactivity reported in scientific literature (PMID: 24796753, PMID: 27618403, and PMID: 24462973 respectively).
Immunogen	Amino acids between 275 and 325 of glyceraldehyde 3-phosphate dehydrogenase protein were used as the immunogen for this GAPDH antibody.
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunocytochemistry
Recommended Dilutions	Western Blot 0.25 - 1 ug/ml. Use reported by customer review, Simple Western 1:25, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10, Immunohistochemistry-Paraffin 5 ug/ml, Immunocytochemistry
Application Notes	GAPDH is a widely used loading control for quantitative Western blotting. In IHC-P, the staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.  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

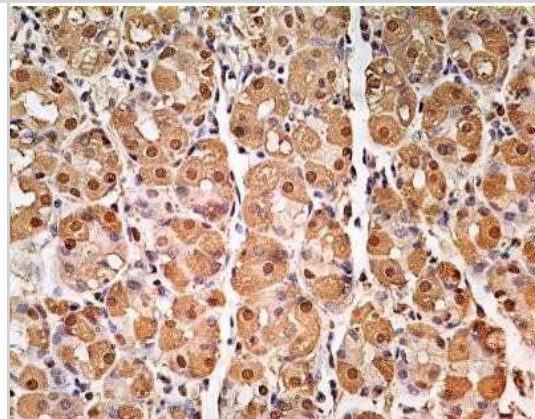
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - WB detection of GAPDH protein (theoretical molecular weight: 36 kDa) in HeLa cells lysate using GAPDH antibody (clone 13H12) in (A) the absence and (B) the presence of immunizing peptide. Image from the standard format of this antibody.



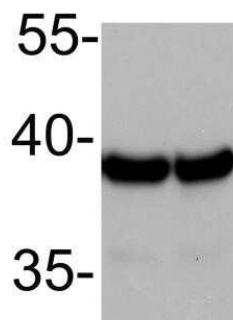
Immunocytochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



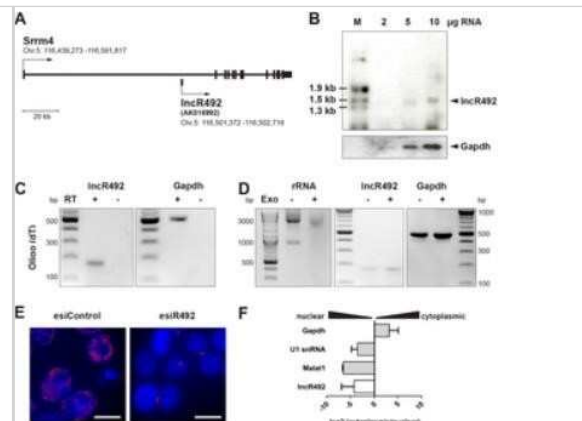
Immunohistochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of normal human stomach tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



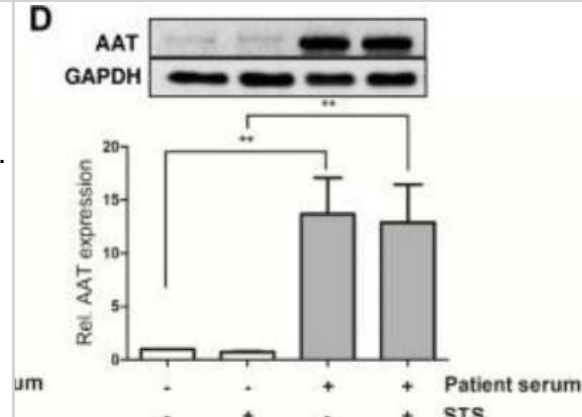
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - analysis of GAPDH in HeLa and HEK 293 cells (25ug/lane) using anti-GAPDH antibody. Image from verified customer review. Image from the standard format of this antibody.



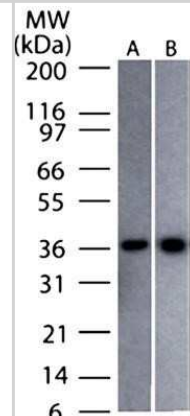
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - Characterization of IncR492. (B) Northern blot of IncR494 using increasing amounts of loaded total. Black arrow signifies IncR492-specific signal at approximately 1400 bp. A probe targeting Gapdh mRNA served as the loading control. (D) RT-PCR analysis of IncR492 and Gapdh expression. RNA extract was treated with a 5'-phosphate-dependent exonuclease, resulting in a degradation of f.ex. ribosomal RNA. Citation: Winzi M, Casas Vila N, Paszkowski-Rogacz M, Ding L, Noack S, Theis M, et al. (2018) The long noncoding RNA IncR492 inhibits neural differentiation of murine embryonic stem cells. PLoS ONE 13(1): e0191682. <https://doi.org/10.1371/journal.pone.0191682>. Image from the standard format of this antibody.



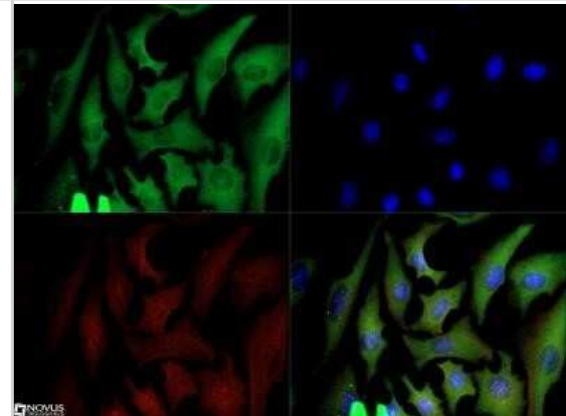
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - Serum from trauma patients induces intrinsic apoptosis resistance by up-regulating AAT expression in neutrophils. AAT protein expression was analyzed in neutrophils after 18 h of culture by western blot analysis. Relative expression was quantified vs. GAPDH expression. One representative blot of five independent experiments is depicted.  $**p < 0.01$  (one-way ANOVA with Newman keuls post-hoc test). Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0177450>), licensed under a CC-BY license. Image from the standard format of this antibody.



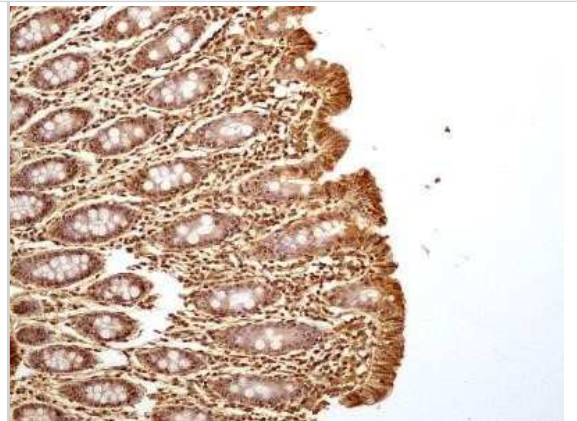
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - WB detection of GAPDH protein (theoretical molecular weight 36 kDa) in lysates of Mouse cell lines (A) NIH 3T3 (B) RAW 264.7 using GAPDH antibody (clone 13H12) at a concentration of 0.25 ug/ml. Image from the standard format of this antibody.



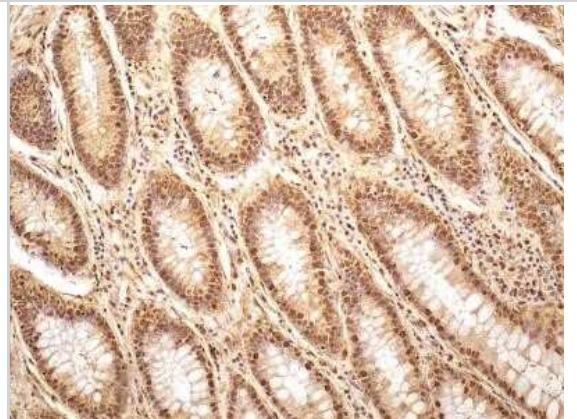
Immunocytochemistry/Immunofluorescence: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - GAPDH antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). A dilution of 1:10 was used. Image objective 40x. Image from the standard format of this antibody.



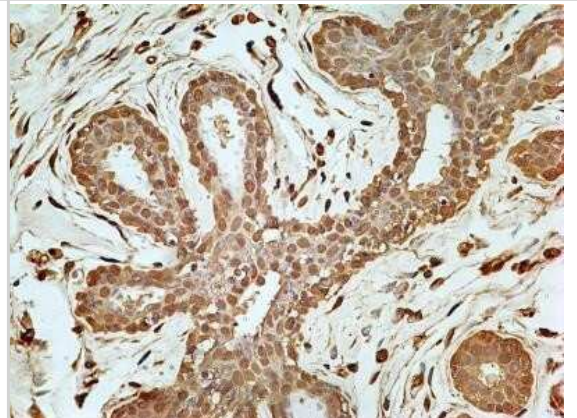
Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human colon tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



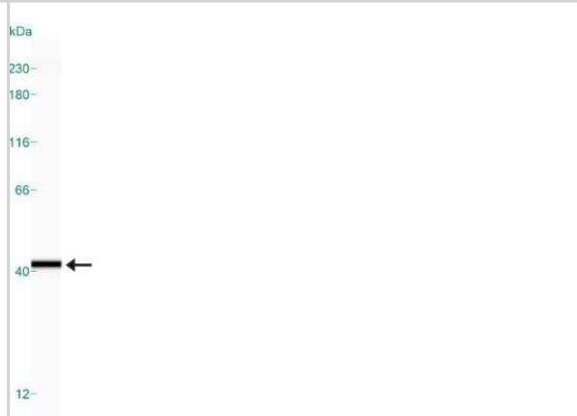
Immunohistochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human rectal carcinoma tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



Immunohistochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of normal human breast tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



Simple Western: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - Simple Western lane view shows a specific band for GAPDH in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Image from the standard format of this antibody.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-80749**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00002597-P02-10ug	Recombinant Human GAPDH GST (N-Term) Protein

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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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