

# 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

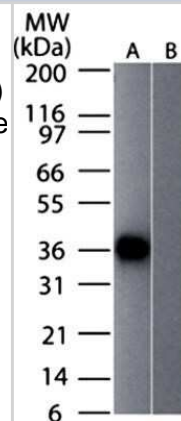
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	13H12
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	36 kDa

Product Description	
Description	Novus Biologicals Mouse GAPDH Antibody (13H12) - Azide and BSA Free (NBP2-27103) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

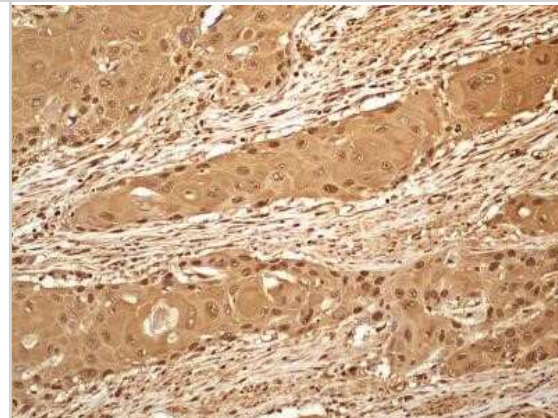
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.25 - 1 ug/ml. Use reported by customer review, Simple Western 1:25, Immunohistochemistry 5 ug/ml, Immunocytochemistry/ Immunofluorescence 1:10, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	<p>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.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: antibody dilution of 1:25. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

## Images

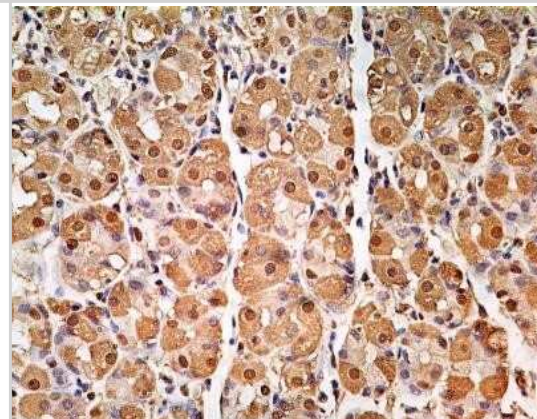
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - WB detection of GAPDH protein (theoretical molecular weight: 36 kDa) in HeLa cells lysate using GAPDH antibody (clone 13H12) in (A) the absence and (B) the presence of immunizing peptide. Image from the standard format of this antibody.



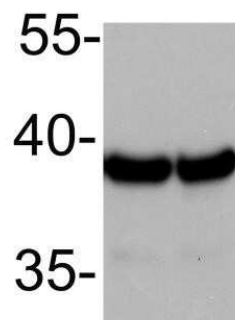
Immunocytochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format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



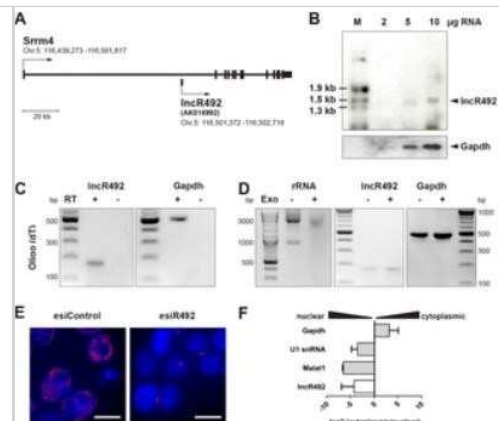
Immunohistochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of normal human stomach tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



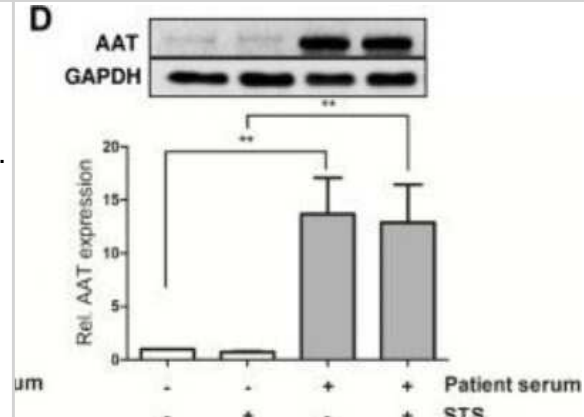
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - analysis of GAPDH in HeLa and HEK 293 cells (25ug/lane) using anti-GAPDH antibody. Image from verified customer review. Image from the standard format of this antibody.



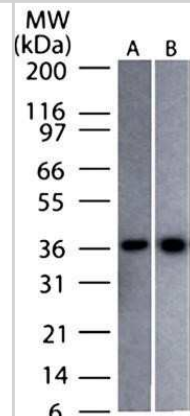
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - Characterization of IncR492. (B) Northern blot of IncR494 using increasing amounts of loaded total. Black arrow signifies IncR492-specific signal at approximately 1400 bp. A probe targeting Gapdh mRNA served as the loading control. (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.



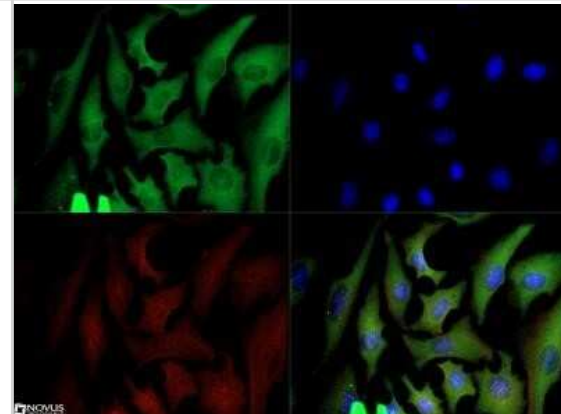
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - Serum from trauma patients induces intrinsic apoptosis resistance by up-regulating AAT expression in neutrophils. AAT protein expression was analyzed in neutrophils after 18 h of culture by western blot analysis. Relative expression 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.



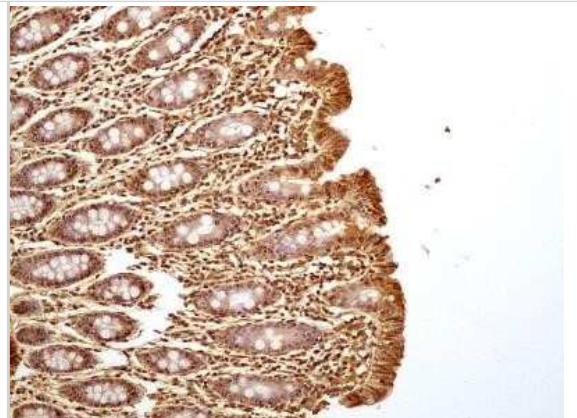
Western Blot: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - WB detection of GAPDH protein (theoretical molecular weight 36 kDa) in lysates of Mouse cell lines (A) NIH 3T3 (B) RAW 264.7 using GAPDH antibody (clone 13H12) at a concentration of 0.25 ug/ml. Image from the standard format of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



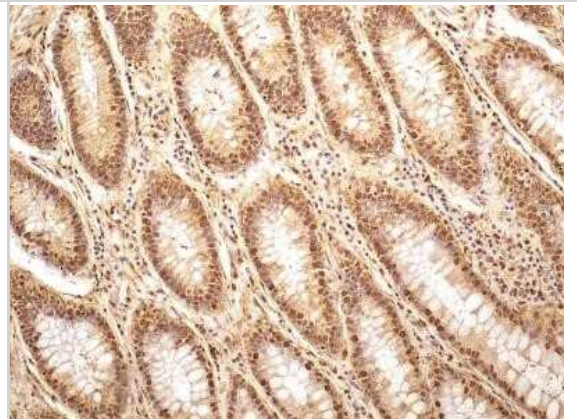
Immunocytochemistry/Immunofluorescence: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - GAPDH antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). A dilution of 1:10 was used. Image objective 40x. Image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



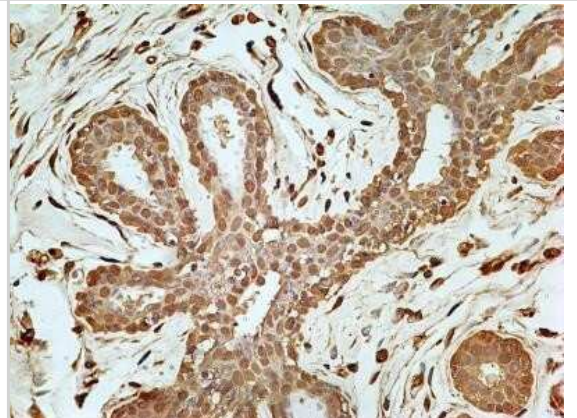
Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human colon tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



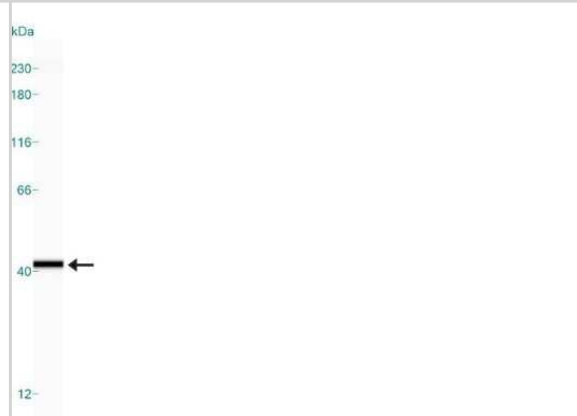
Immunohistochemistry: GAPDH Antibody (13H12) - Azide and BSA Free [NBP2-80749] - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human rectal carcinoma tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration. Image from the standard format of this antibody.



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.





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

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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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