

Product Datasheet

GRP78/HSPA5 Antibody - BSA Free NB300-520

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB300-520

GRP78/HSPA5 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	78 kDa

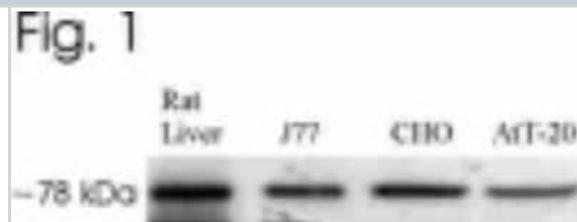
Product Description	
Description	Novus Biologicals Rabbit GRP78/HSPA5 Antibody - BSA Free (NB300-520) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-GRP78/HSPA5 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse, Rat, Primate (Negative)
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34519641). Human reactivity reported in scientific literature (PMID: 26865610). Does not cross-react with African Green Monkey (COS cells). Mouse reactivity reported in scientific literature (PMID:32973043).
Marker	ER Stress Marker
Immunogen	A synthetic peptide made to a C-terminal portion of rat GRP78 (within residues 600-654). [Uniprot: P06761]

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:25, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:20, Immunohistochemistry-Paraffin

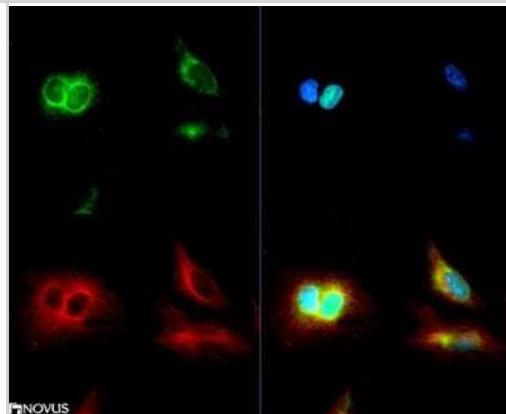


Images

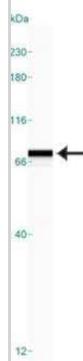
Western Blot: GRP78/HSPA5 Antibody [NB300-520] - GRP78 on indicated cell extracts using NB300-520.



Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NB300-520] - GRP78/BIP antibody was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



Simple Western: GRP78/HSPA5 Antibody [NB300-520] - Lane view shows a specific band for GRP78 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



Publications

Bai Y, Treins C, Volpi VG et al. Treatment with IFB-088 Improves Neuropathy in CMT1A and CMT1B Mice *Molecular Neurobiology* 2022-07-01 [PMID: 35501630] (Western Blot, Human)

Veneri FA, Prada V, Mastrangelo R et al. A novel mouse model of CMT1B identifies hyperglycosylation as a new pathogenetic mechanism *Human molecular genetics* 2022-07-31 [PMID: 35908287] (WB, Mouse)

Della-Flora Nunes G, Wilson ER, Hurley E et al. Activation of mTORC1 and c-Jun by Prohibitin1 loss in Schwann cells may link mitochondrial dysfunction to demyelination *eLife* 2021-09-14 [PMID: 34519641] (WB, Rat)

Della-Flora Nunes G, Wilson ER, Marziali LN et al. Prohibitin 1 is essential to preserve mitochondria and myelin integrity in Schwann cells *Nature communications* 2021-06-02 [PMID: 34078899] (WB, Mouse)

Scapin C, Ferri C, Pettinato E et al. Phosphorylation of eIF2 alpha Promotes Schwann Cell Differentiation and Myelination in CMT1B Mice with Activated UPR *J Neurosci* 2020-10-14 [PMID: 32973043] (Mouse)

Wang G, Xu J, Zhao J et al. Arf1-mediated lipid metabolism sustains cancer cells and its ablation induces anti-tumor immune responses in mice *Nat Commun* 2020-01-10 [PMID: 31924786] (ICC/IF, IF/IHC, Mouse)

Chapados NA, Boucher MP. Liver metabolic disruption induced after a single exposure to PCB126 in rats. *Environ Sci Pollut Res Int.* 2016-10-31 [PMID: 27796995] (WB, Rat)

Magarin M, Pohl T, Lill A et al. Embryonic cardiomyocytes can orchestrate various cell protective mechanisms to survive mitochondrial stress *J Mol Cell Cardiol* 2016-04-24 [PMID: 27106802] (IHC-P, WB, Mouse)

Musner N, Sidoli M, Zambroni D et al. Perk Ablation Ameliorates Myelination in S63del-Charcot-Marie-Tooth 1B Neuropathy. *ASN Neuro.* 2016-04-01 [PMID: 27095827] (WB, Mouse)

Shin D, Feltri ML, Wrabetz L. Altered Trafficking and Processing of GALC Mutants Correlates with Globoid Cell Leukodystrophy Severity. *J. Neurosci.* 2016-02-10 [PMID: 26865610] (WB, Human)





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Products Related to NB300-520

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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