

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

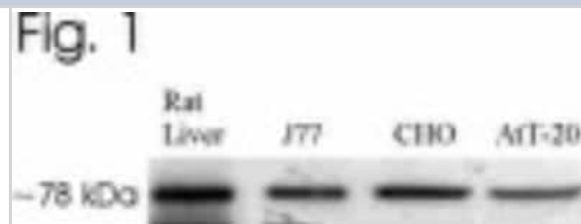
Product Description	
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse, Rat, Primate (Negative)
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34519641). Human reactivity reported in scientific literature (PMID: 26865610). Does not cross-react with African Green Monkey (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, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:25, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:20, Immunohistochemistry-Paraffin

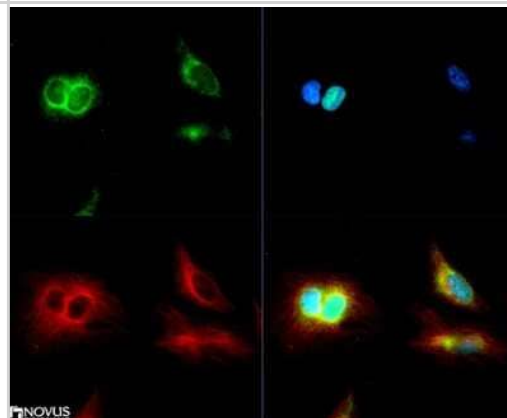


Images

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)

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

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB300-520G	GRP78/HSPA5 Antibody [DyLight 488]

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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