

# Product Datasheet

## GRP78/HSPA5 Antibody - BSA Free NB300-520SS

Unit Size: 0.025 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 10**

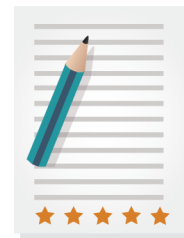
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB300-520](http://www.novusbio.com/NB300-520)

Updated 4/13/2025 v.20.1

Earn rewards for product  
reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NB300-520](http://www.novusbio.com/reviews/destination/NB300-520)



**NB300-520SS**

GRP78/HSPA5 Antibody - BSA Free

Product Information	
Unit Size	0.025 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

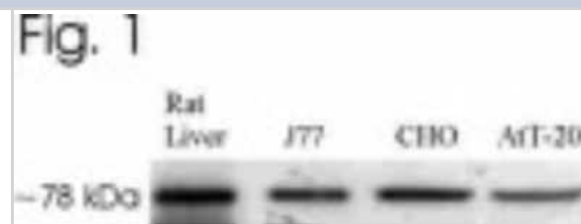
Product Description	
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse, Rat, Primate (Negative)
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34519641). Human reactivity reported in scientific literature (PMID: 26865610). Does not cross-react with African Green Monkey (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

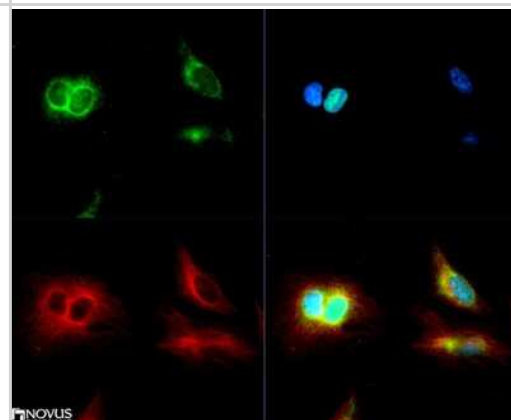


## Images

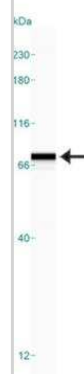
Western Blot: GRP78/HSPA5 Antibody [NB300-520] - GRP78 on indicated cell extracts using NB300-520.



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)





### **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](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

### **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.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NB300-520](http://www.novusbio.com/reviews/submit/NB300-520)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

