

# Product Datasheet

## GRP78/HSPA5 Antibody - BSA Free NB100-56411

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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



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

### Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NB100-56411](http://www.novusbio.com/NB100-56411)

Updated 9/9/2025 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/NB100-56411](http://www.novusbio.com/reviews/destination/NB100-56411)



**NB100-56411**

GRP78/HSPA5 Antibody - 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	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

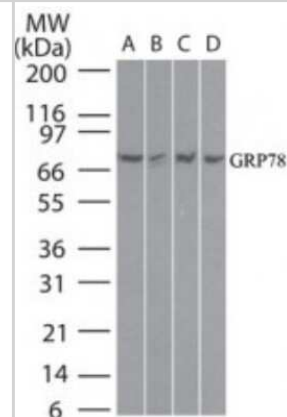
Product Description	
Description	Novus Biologicals Rabbit GRP78/HSPA5 Antibody - BSA Free (NB100-56411) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-GRP78/HSPA5 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3309
Gene Symbol	HSPA5
Species	Human, Mouse
Reactivity Notes	Predicted to react with Chimpanzee, Canine, Macaque, Rat, Xenopus and Zebrafish.
Marker	ER Stress Marker
Immunogen	A portion of amino acids 550-600 of human GRP78 was used as the immunogen.

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-3 ug/ml, Simple Western 1:250, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (Egawa et al (2011)), Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	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: Tested in HeLa lysate 1.0 mg/mL, separated by Size, antibody dilution of 1:250, apparent MW was 77 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

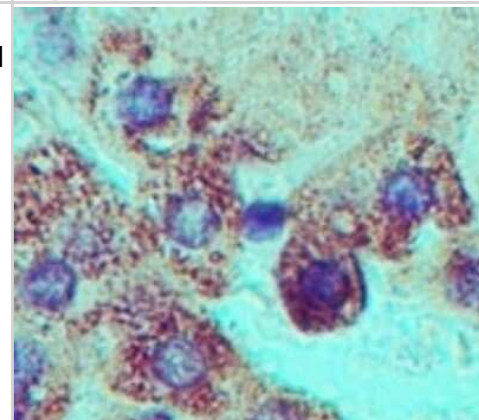


## Images

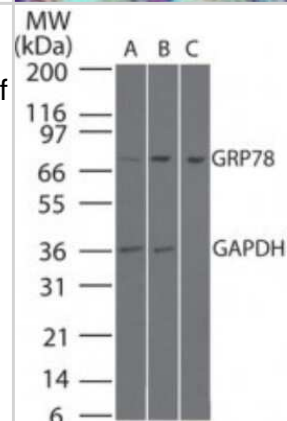
Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in A) HeLa, B) human liver, C) mouse liver, and D) rat liver lysate using NB100-56411 at 2 ug/ml. Goat anti-rabbit Ig HRP secondary antibody and PicoTect ECL substrate solution were use for this test.



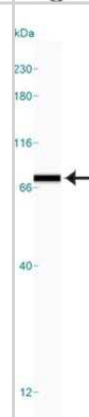
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in formalin-fixed, paraffin-embedded mouse liver tissue using this antibody at 5 ug/ml.



Western Blot: GRP78/HSPA5 Antibody [NB100-56411] - Analysis of GRP78/HSPA5 in mouse liver tissue enriched using Endoplasmic Reticulum Enrichment Kit and 1 ug/ml of NB100-56411 and 0.25 ug/ml of anti-GAPDH loading control. Lane A contains 20 ugs of whole mouse liver lysate, lane B contains 20 ugs of total ER fraction, and lane C contains 20 ugs of rough ER fraction.



Simple Western: GRP78/HSPA5 Antibody [NB100-56411] - Simple Western lane view shows a specific band for GRP78/HSPA5 in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230kDa separation system.



## Publications

Li T, Yang Y, Li Y et al. Platelets mediate inflammatory monocyte activation by SARS-CoV-2 Spike protein The Journal of clinical investigation 2021-12-29 [PMID: 34964720] (WB, Human)

Panaretakis Theocharis, Kepp Oliver, Brockmeier Ulf et al. Mechanisms of pre-apoptotic calreticulin exposure in immunogenic cell death. EMBO J. 2009-03-04 [PMID: 19165151] (Human)

Egawa N, Yamamoto K, Inoue H et al. The endoplasmic reticulum stress sensor, ATF6a, protects against neurotoxin-induced dopaminergic neuronal death. J Biol Chem. 2011-03-11 [PMID: 21131360] (WB, ICC/IF, Mouse)

### Details:

BiP/GRP78 (IMG-5228A). WB & IF/ICC: Mouse midbrain or striatum from ATF6 alpha WT +/+ or ATF6 alpha kO -/- mice, Fig 2B.

Sharma A, Masri J, Jo OD et al. Protein kinase C regulates internal initiation of translation of the GATA-4 mRNA following vasopressin-induced hypertrophy of cardiac myocytes. J Biol Chem. 2007-03-30 [PMID: 17284439] (WB)

### Details:

BiP/GRP78 (IMG-5228A). WB: H9c2 ventricular cardiomyocytes treated with arginine vasopressin (AVP), Fig 8A.





### **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 NB100-56411**

---

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.

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/NB100-56411](http://www.novusbio.com/reviews/submit/NB100-56411)

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

