

# Product Datasheet

## GRP78/HSPA5 Antibody - BSA Free NBP1-54318

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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**NBP1-54318**

GRP78/HSPA5 Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS, 50% Glycerol
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	3309
<b>Gene Symbol</b>	HSPA5
<b>Species</b>	Human, Mouse, Rat, Canine, Drosophila, Hamster
<b>Marker</b>	ER Stress Marker
<b>Specificity/Sensitivity</b>	Detects a protein with a mass of approx. 78kDa corresponding to Grp78.
<b>Immunogen</b>	Full length human GRP78 (Bip) his tagged at the N terminus
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:2000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100
<b>Application Notes</b>	0.5 ug/ml of GRP78 (Bip) Antibody was sufficient for detection of Grp78 in 10 ug of rat tissue lysate by ECL immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary Antibody.

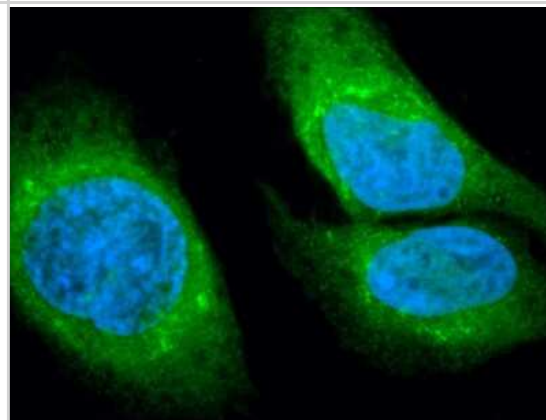


## Images

Western Blot: GRP78/HSPA5 Antibody [NBP1-54318] - Western blot analysis of Human Glucose deprived glia cell lysates showing detection of GRP78/HSPA5 protein using Rabbit Anti-GRP78/HSPA5 Polyclonal Antibody (NBP1-54318). Primary Antibody: Rabbit Anti-GRP78/HSPA5 Polyclonal Antibody (NBP1-54318) at 1:1000.



Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP1-54318] - Tissue: Heat Shocked HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-GRP78 (Bip) Polyclonal Antibody at 1:100 for 12 hours at 4C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Nucleus. Magnification: 100x. Heat Shocked at 42C for 1h.



## Publications

Heymann C, Paul C, Huang N et al. Molecular insights into the axon guidance molecules Sidestep and Beaten path *Frontiers in Physiology* 2022-11-28 [PMID: 36518105] (Immunohistochemistry, Western Blot)

Chu H, Chan CM, Zhang X et al. Middle East respiratory syndrome coronavirus and bat coronavirus HKU9 both can utilize GRP78 for attachment onto host cells *J. Biol. Chem.* 2018-06-10 [PMID: 29887526] (Human)



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### **Products Related to NBP1-54318**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00003309-P01-10ug	Recombinant Human GRP78/HSPA5 GST (N-Term) Protein

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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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