

# Product Datasheet

## GRP78/HSPA5 Antibody NBP2-16749

Unit Size: 0.1 ml

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

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**NBP2-16749****GRP78/HSPA5 Antibody****Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 20% Glycerol
<b>Target Molecular Weight</b>	72 kDa

**Product Description**

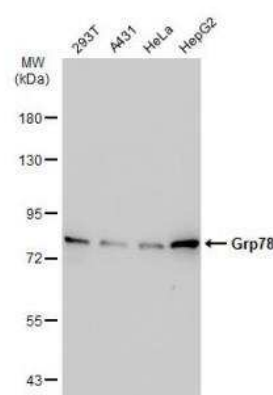
<b>Host</b>	Rabbit
<b>Gene ID</b>	3309
<b>Gene Symbol</b>	HSPA5
<b>Species</b>	Human, Mouse, Rat, Chicken
<b>Reactivity Notes</b>	Japanese Medaka (95%), Xenopus laevis (99%).
<b>Marker</b>	ER Stress Marker
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of human GRP78/HSPA5. The exact sequence is proprietary.

**Product Application Details**

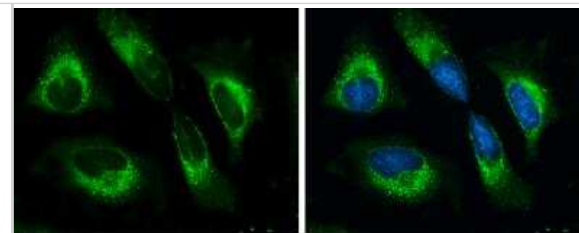
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:5000-1:20000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

**Images**

Western Blot: GRP78/HSPA5 Antibody [NBP2-16749] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Grp78 antibody diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



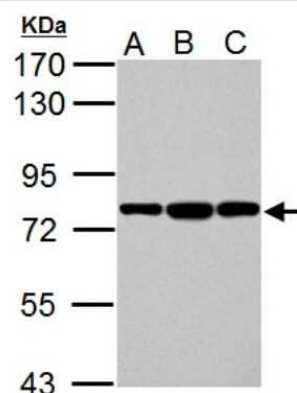
**Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP2-16749]** - HeLa cells were fixed in ice-cold MeOH for 5 min. Green: Grp78 protein stained by Grp78 antibody diluted at 1:500. Blue: Hoechst 33342 staining.



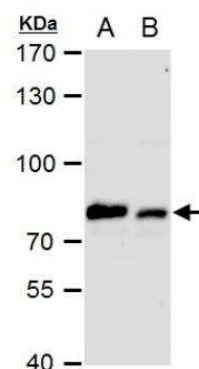
**Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]** - Rat duodenum. Grp78 stained by Grp78 antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



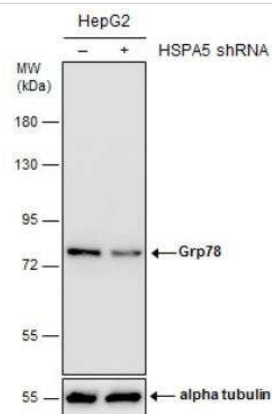
**Western Blot: GRP78 Antibody [NBP2-16749]** - Sample (30 ug of whole cell lysate) A: NIH-3T3 B: JC C: BCL-1 7. 5% SDS PAGE gel, diluted at 1:10000.



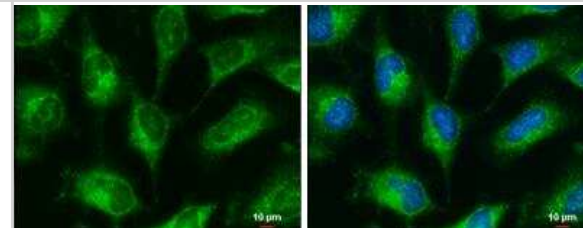
**Western Blot: GRP78/HSPA5 Antibody [NBP2-16749]** - A. 30 ug PC-12 whole cell extract B. 30 ug Rat2 whole cell extract 7.5% SDS-PAGE Grp78 antibody dilution: 1:10000 The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



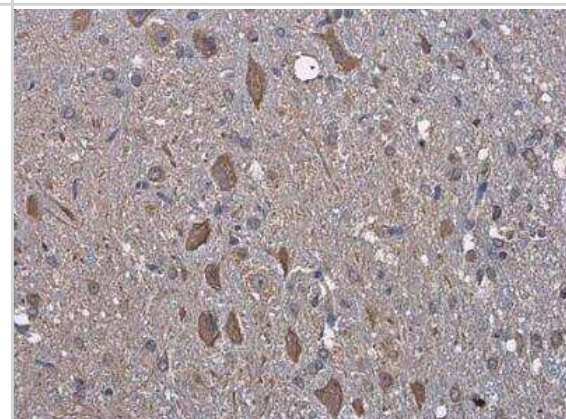
**Western Blot: GRP78/HSPA5 Antibody [NBP2-16749]** - Non-transfected (-) and transfected (+) HepG2 whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Grp78 antibody. HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody.



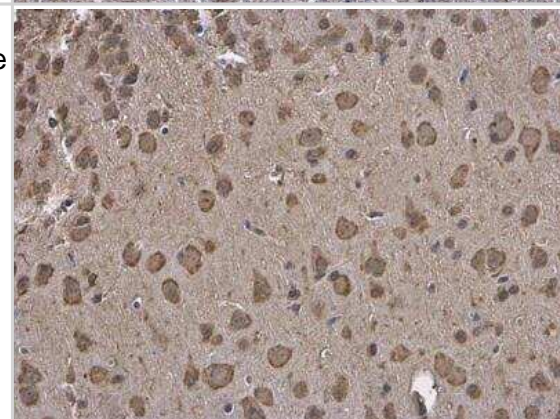
**Immunocytochemistry/Immunofluorescence: GRP78/HSPA5 Antibody [NBP2-16749]** - HeLa cells were fixed in ice-cold MeOH for 5 min. Green: Grp78 protein stained by Grp78 antibody diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10  $\mu$ m.



**Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]** - Rat brain. Grp78 antibody diluted at 1:250. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

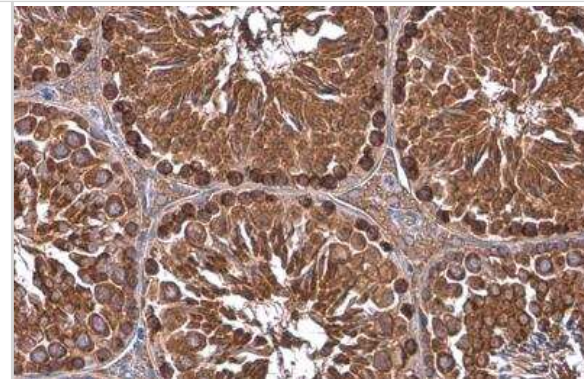


**Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]** - Mouse brain. Grp78 antibody diluted at 1:250. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.

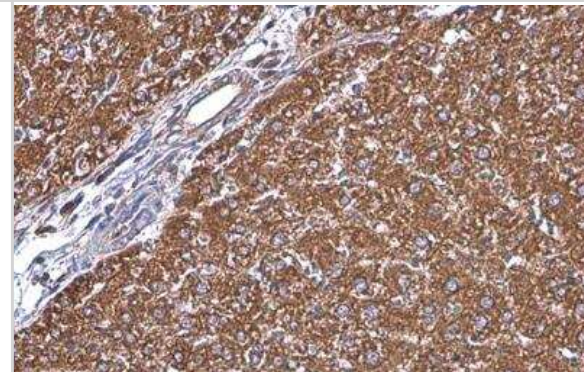




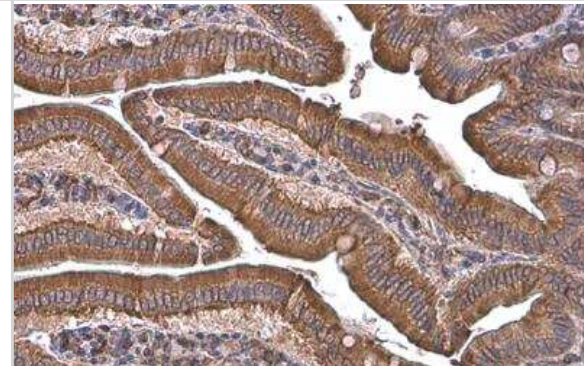
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]  
 - Mouse testis. Grp78 stained by Grp78 antibody diluted at 1:500.  
 Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



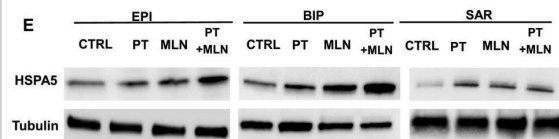
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]  
 - Rat liver. Grp78 stained by Grp78 antibody diluted at 1:500. Antigen  
 Retrieval: Citrate buffer, pH 6.0, 15 min



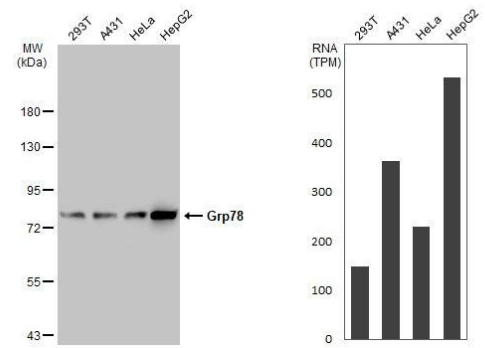
Immunohistochemistry-Paraffin: GRP78/HSPA5 Antibody [NBP2-16749]  
 - Mouse intestine. Grp78 stained by Grp78 antibody diluted at 1:500.  
 Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Western Blot: GRP78/HSPA5 Antibody [NBP2-16749] - GRP78/HSPA5 proteins were measured by immunoblotting in epithelioid (EPI BAP1+ UPN7), biphasic (BIP BAP1- UPN16) and sarcomatous (BAP1+ UPN22) MPM cells. Tubulin was used as a loading control. The figure is representative of 1 out of 3 experiments with similar results. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35197103/>) licensed under a CC-BY license.



Western Blot: GRP78/HSPA5 Antibody [NBP2-16749] - Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Grp78 antibody diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



## Publications

Salaroglio IC, Belisario DC, Bironzo P et al. SKP2 drives the sensitivity to neddylation inhibitors and cisplatin in malignant pleural mesothelioma Journal of experimental & clinical cancer research : CR 2022-02-23 [PMID: 35197103] (WB, Human)



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### **Products Related to NBP2-16749**

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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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