

bs-1219R**[Primary Antibody]****GRP78 Rabbit pAb****Bioss**
ANTIBODIES

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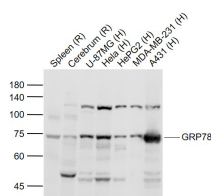
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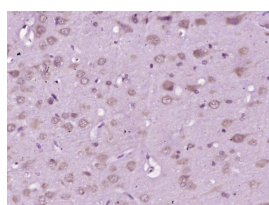
400-901-9800

— DATASHEET —

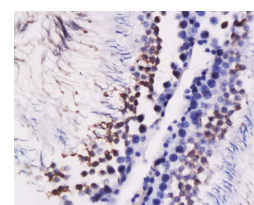
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Rat (predicted: Mouse, Pig) Predicted MW.: 78 kDa Subcellular Location: Cytoplasm
Clonality: Polyclonal		
GeneID: 3309	SWISS: P11021	
Target: GRP78		
Immunogen: KLH conjugated synthetic peptide derived from human GRP78: 251-360/654.		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: The 78 kDa glucose regulated protein/BiP (GRP78) belongs to the family of ~70 kDa heat shock proteins (HSP 70). GRP78 is a resident protein of the endoplasmic reticulum (ER) and may associate transiently with a variety of newly synthesized secretory and membrane proteins or permanently with mutant or defective proteins that are incorrectly folded, thus preventing their export from the ER lumen. GRP78 is a highly conserved protein that is essential for cell viability. The highly conserved sequence Lys-Asp-Glu-Leu (KDEL) is present at the C terminus of GRP78 and other resident ER proteins including glucose regulated protein 94 (GRP 94) and protein disulfide isomerase (PDI). The presence of carboxy terminal KDEL appears to be necessary for retention and appears to be sufficient to reduce the secretion of proteins from the ER. This retention is reported to be mediated by a KDEL receptor.		

— VALIDATION IMAGES —

Sample: Lane 1: Spleen (Rat) Lysate at 40 ug
Lane 2: Cerebrum (Rat) Lysate at 40 ug Lane 3:
U-87MG (Human) Cell Lysate at 30 ug Lane 4:
Hela (Human) Cell Lysate at 30 ug Lane 5: HepG2
(Human) Cell Lysate at 30 ug Lane 6: MDA-
MB-231 (Human) Cell Lysate at 30 ug Lane 7:
A431 (Human) Cell Lysate at 30 ug Primary: Anti-
GRP78 (bs-1219R) at 1/1000 dilution Secondary:
IRDye800CW Goat Anti-Rabbit IgG at 1/20000
dilution Predicted band size: 78 kD Observed
band size: 74 kD



Paraformaldehyde-fixed, paraffin embedded (rat
brain tissue); Antigen retrieval by boiling in
sodium citrate buffer (pH6.0) for 15min; Block
endogenous peroxidase by 3% hydrogen
peroxide for 20 minutes; Blocking buffer (normal
goat serum) at 37°C for 30min; Antibody
incubation with (GRP78) Polyclonal Antibody,
Unconjugated (bs-1219R) at 1:400 overnight at
4°C, followed by operating according to SP
Kit(Rabbit) (sp-0023) instructions and DAB
staining.



Tissue/cell: rat testis tissue; 4%
Paraformaldehyde-fixed and paraffin-
embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block
endogenous peroxidase by 3% Hydrogen
peroxide for 30min; Blocking buffer (normal goat
serum, C-0005) at 37°C for 20 min; Incubation:
Anti-GRP78 Polyclonal Antibody,
Unconjugated(bs-1219R) 1:200, overnight at 4°C,
followed by conjugation to the secondary
antibody(SP-0023) and DAB(C-0010) staining

— SELECTED CITATIONS —

- **[IF=7.9]** Tian-Bao Wang. et al. Rosmarinic acid mitigates acrylamide induced neurotoxicity via suppressing endoplasmic reticulum stress and inflammation in mouse hippocampus. PHYTOMEDICINE. 2024 Apr;126:155448 WB ;Mouse. 38394736

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=7.675]** Reziyamu Wufuer. et al. Distinct Roles of Nrf1 and Nrf2 in Monitoring the Reductive Stress Response to Dithiothreitol (DTT). ANTIOXIDANTS-BASEL. 2022 Aug;11(8):1535 WB ;Human. 36009254
- **[IF=7.1]** Tingting Wang. et al. Endoplasmic reticulum stress-autophagy axis is involved in copper-induced ovarian ferroptosis. FREE RADICAL BIO MED. 2025 Apr;; WB ;Mouse. 40194638
- **[IF=7.1]** Reziyamu Wufuer. et al. Distinct mechanisms by which Nrf1 and Nrf2 as drug targets contribute to the anticancer efficacy of cisplatin on hepatoma cells. FREE RADICAL BIOLOGY AND MEDICINE. 2024 Mar;213:488-511. Western blot ;Human. 38278308
- **[IF=5.96]** Xia, Dan, et al. "Knockout of MARCH2 inhibits the growth of HCT116 colon cancer cells by inducing endoplasmic reticulum stress." Cell Death and Disease 8.7 (2017). WB ;Human. 28749466