

bsm-33221M**[Primary Antibody]****BioSS**
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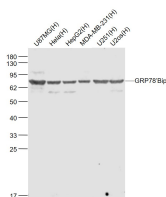
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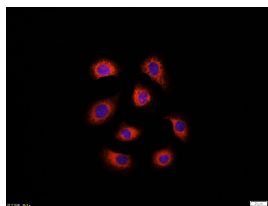
400-901-9800

GRP78/Bip Mouse mAb**DATASHEET**

Host: Mouse Clonality: Monoclonal GeneID: 3309 Target: GRP78/Bip Purification: affinity purified by Protein G Concentration: 1mg/ml Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	Isotype: IgG CloneNo.: 12D9 SWISS: P11021	Applications: WB (1:500-1000) ICC/IF (1:100) Reactivity: Human (predicted: Rat) Predicted MW.: 78 kDa Subcellular Location: Cytoplasm
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: U87MG(Human) Cell Lysate at 30 ug
Hela(Human) Cell Lysate at 30 ug
HepG2(Human) Cell Lysate at 30 ug MDA-MB-231(Human) Cell Lysate at 30 ug
U251(Human) Cell Lysate at 30 ug U2os(Human) Cell Lysate at 30 ug
Primary: Anti-GRP78/Bip (bsm-33221M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 78 kD
Observed band size: 78 kD



HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (GRP78/Bip) monoclonal Antibody, Unconjugated (bsm-33221M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=7.3]** Lin Lanlan. et al. Derlin-3 manipulates the endoplasmic reticulum stress and IgG4 secretion of plasma cells in lung adenocarcinoma. ONCOGENE. 2025 May;;1-14 WB ;Human. 40369338
- **[IF=6]** Dajin Pi. et al. Tanshinone IIA Inhibits the Endoplasmic Reticulum Stress-Induced Unfolded Protein Response by Activating the PPARα/FGF21 Axis to Ameliorate Nonalcoholic Steatohepatitis. ANTIOXIDANTS-BASEL. 2024 Sep;13(9):1026

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

WB ;Mouse. 10.3390/antiox13091026

- **[IF=5.279]** Jianzhao Liao. et al. Endoplasmic Reticulum Stress Contributes to Copper-Induced Pyroptosis via Regulating the IRE1 α -XBP1 Pathway in Pig Jejunal Epithelial Cells. J Agr Food Chem. 2022;70(4):1293–1303 WB,IF ;Pig. 35075900