

Mouse anti-Human GRP78/HSPA5 Monoclonal Antibody | anti-GRP78 antibody

GRP78/HSPA5

CATALOG # AAA48337	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

GRP78/HSPA5; Monoclonal Antibody; Binding immunoglobulin protein; HSPA5; heat shock 70kDa protein 5; GRP78; glucose-regulated protein 78kD; MIF2; anti-GRP78 antibody

PRODUCT SPECIFICATIONS

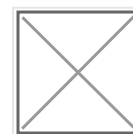
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1 kappa
Clone Number	AT3D2
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	654
Applicable Applications for anti-GRP78 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human BIP (20-650aa) purified from Baculo virus
Conjugation	Unconjugated
Note	This product was produced from tissue culture supernatant.
Preparation and Storage	Can be stored at 2 degree C to 8 degree C for 1 week. For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



WB (Western Blot)

The cell lysates(40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GRP78/HSPA5 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: U87MG cell lysate Lane 3.: Lncap cell lysate



ICC (Immunocytochemistry)

ICC/IF analysis of GRP78/HSPA5 in HeLa cells. The cell was stained (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ADDITIONAL INFORMATION

Related Product Information for anti-GRP78 antibody	Binding immunoglobulin protein (BIP) also known as 78kDa glucose-regulated protein (GRP-78) or heatshock 70kDa protein 5 (HSPA5) is a HSP70 molecular chaperone located in the lumen of the endoplasmicreticulum (ER) that binds newly synthesized proteins as they are translocated into the ER, and maintains them in a state competent for subsequent folding and oligomerization. BIP is also an essential component of the translocation machinery, as well as playing a role in retrograde transport across the ER membrane of aberrant proteins destined for degradation by the proteasome. BIP is an abundant protein under all growth conditions, but its synthesis is markedly induced under conditions that lead to the accumulation of unfolded polypeptides in the ER.
Product Categories/Family for anti-GRP78 antibody	Cancer; Lysates; Metabolism; Neuroscience; Other; Signal Transduction; Stem cell; Tags & Cell Markers
References	Ting. J., et al. (1988) DNA 7(4): 275-86.; Hendershot. L.M., et al. (1994) Genomics 20(2): 281-284.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16507237
NCBI GeneID	3309
NCBI Accession #	NP_005338
NCBI GenBank Nucleotide #	NP_005338.1
UniProt Accession #	P11021
NCBI Official Full Name	endoplasmic reticulum chaperone BiP
NCBI Official Synonym Full Names	heat shock protein family A (Hsp70) member 5
NCBI Official Symbol	HSPA5
NCBI Official Synonym Symbols	BIP; MIF2; GRP78; HEL-S-89n
NCBI Protein Information	endoplasmic reticulum chaperone BiP
UniProt Protein Name	78 kDa glucose-regulated protein
UniProt Gene Name	HSPA5
UniProt Synonym Gene Names	GRP78; GRP-78; BiP
UniProt Entry Name	GRP78_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/grp78-hspa5-antibody-clone-at3d2-immunofluorescence-immunocytochemistry-western-blot-elisa/48337>