

Mouse anti-Human, Rat BiP/GRP78 Monoclonal Antibody | anti-BiP/GRP78 antibody

BiP/GRP78 Antibody

CATALOG # AAA111271	HOST Mouse	REACTIVITY Human, Rat	APPLICATIONS Immunocytochemistry, Western Blot
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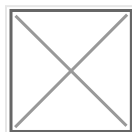
PRODUCT SYNONYMS

BiP/GRP78; Monoclonal Antibody; BiP/GRP78 Antibody; MIF2; HSPA5; FLJ26106; anti-BiP/GRP78 antibody

PRODUCT SPECIFICATIONS

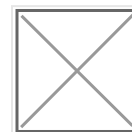
Host	Mouse
Reactivity	Human, Rat
Clonality	Monoclonal
Isotype	IgG1
Specificity	This antibody detects endogenous levels BiP/GRP78 and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%, glycerol
Sequence Length	654
Applicable Applications for anti-BiP/GRP78 antibody	ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Purified recombinant human BiP/GRP78 protein fragments expressed in E Coli.
Cellular Localization	Endoplasmic reticulum lumen; Melanosome

IMAGES



Application Data

Western blot detection of BiP/GRP78 (C-terminus) in HeLa, LNCAP, C6&MCF7 cell lysates using BiP/GRP78 (C-terminus) antibody (1:1000 diluted). Predicted band size: 72kDa
Observed band size: 72kDa.



Application Data

Immunocytochemistry of HeLa cells using anti- BiP/GRP78 (C-terminus) antibody diluted 1:100.

ADDITIONAL INFORMATION

Related Product Information for anti-BiP/GRP78 antibody	UniPort Summary Function: Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER Entrez Summary: 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.
Product Categories/Family for anti-BiP/GRP78 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	16507237
NCBI GeneID	3309
NCBI Accession #	NP_005338.1
NCBI GenBank Nucleotide #	NM_005347
UniProt Accession #	P11021; Q2EF78; Q9NPF1; Q9UK02; B0QZ61
Molecular Weight	72kDa
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	Endoplasmic reticulum chaperone BiP
UniProt Gene Name	HSPA5
UniProt Synonym Gene Names	HSP70 family protein 5Curated

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.