

Rabbit GRP78 BiP Polyclonal Antibody | anti-HSPA5 antibody

Anti-GRP78 BiP antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA45457	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunohistochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GRP78 BiP; Polyclonal Antibody; Anti-GRP78 BiP antibody; 78 kDa glucose-regulated protein; heat shock 70kDa protein 5(glucose-regulated protein; 78kDa); 78 kDa glucose regulated protein antibody; 78 kDa glucose-regulated protein antibody; AL022860 antibody; AU019543 antibody; BiP antibody; D2Wsu141e antibody; D2Wsu17e antibody; Endoplasmic reticulum luminal Ca(2+)-binding protein grp78 antibody; Endoplasmic reticulum luminal Ca2+ binding protein grp78 antibody; FLJ26106 antibody; Glucose Regulated Protein 78kDa antibody; GRP 78 antibody; GRP-78 antibody; GRP78 antibody; GRP78_HUMAN antibody; Heat shock 70 kDa protein 5 antibody; Heat Shock 70kDa Protein 5 antibody; Hsce70 antibody; HSPA 5 antibody; HSPA5 antibody; Immunoglobulin Heavy Chain Binding Protein antibody; Immunoglobulin heavy chain-binding protein antibody; mBiP antibody; MIF2 antibody; Sez7 antibody; anti-HSPA5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized
Sequence Length	654
Applicable Applications for anti-HSPA5 antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GRP78 BiP (603-617aa EWLESHQDADIEDFK), identical to the related mouse and rat sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Species	Reacts with Human Rat (Predicted to work with: Mouse).
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPA5 antibody	Description: Rabbit IgG polyclonal antibody for 78 kDa glucose-regulated protein(HSPA5) detection. Tested with WB, IHC-P, IHC-F, ICC in Human, Mouse, Rat. Background: HSPA5(heat shock 70kDa protein 5) also known as glucose-regulated protein, 78kD(GRP78) or BiP, is a member of the heat-shock protein-70(HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum. 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. The HSPA5 gene is mapped on 9q33.3. Shen et al.(2002) concluded that HSPA5 retains ATF6 in the ER by inhibiting its Golgi localization signals and that dissociation of HSPA5 during ER stress allows ATF6 to be transported to the Golgi. The findings of Shen et al.(2002) demonstrated that HSPA5 is a key element in sensing the folding capacity within the ER.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	14916999
NCBI GeneID	3309
UniProt Accession #	P11021; Q2EF78; Q9NPF1; Q9UK02; B0QZ61
NCBI Official Full Name	78 kDa glucose-regulated protein
NCBI Official Synonym Full Names	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
NCBI Official Symbol	HSPA5
NCBI Official Synonym Symbols	BIP; MIF2; GRP78; HEL-S-89n
NCBI Protein Information	78 kDa glucose-regulated protein; immunoglobulin heavy chain-binding protein; epididymis secretory sperm binding protein Li 89n; endoplasmic reticulum lumenal Ca(2+)-binding protein grp78
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.

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