

GRP78 BiP Polyclonal Antibody | anti-GRP78 BiP antibody

Anti-GRP78 BiP Antibody

CATALOG # AAA46284	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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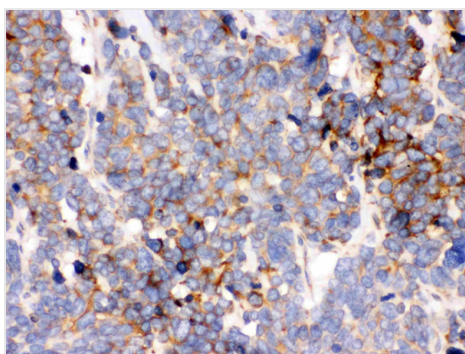
PRODUCT SYNONYMS

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

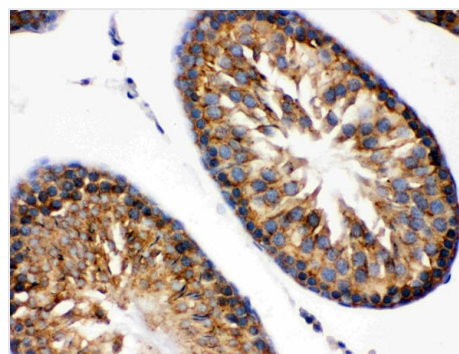
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	654
Applicable Applications for anti-GRP78 BiP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GRP78 BiP (592-624aa ETMEKAVEEKIEWLESHQDADIEDFKAKKKELE), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

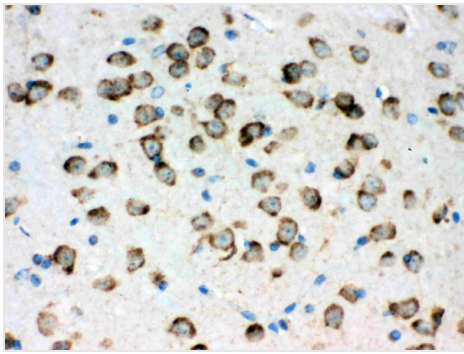
IMAGES



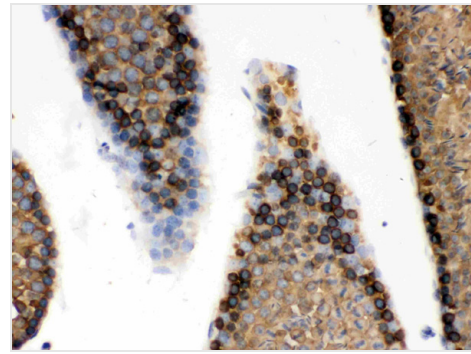
IHC (Immunohistochemistry)
Anti- GRP78 BiP Picoband antibody, AAA46284, IHC(P)IHC(P): Human Lung Cancer Tissue



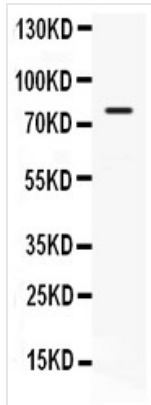
IHC (Immunohistochemistry)
Anti- GRP78 BiP Picoband antibody, AAA46284, IHC(P)IHC(P): Rat Testis Tissue



IHC (Immunohistochemistry)
Anti- GRP78 BiP Picoband antibody, AAA46284, IHC(P)IHC(P): Mouse Brain Tissue



IHC (Immunohistochemistry)
Anti- GRP78 BiP Picoband antibody, AAA46284, IHC(P)IHC(P): Mouse Testis Tissue



WB (Western Blot)
Anti- GRP78 BiP Picoband antibody, AAA46284, Western blottingAll lanes: Anti GRP78 BiP (AAA46284) at 0.5ug/mlWB: HELA Whole Cell Lysate at 40ugPredicted bind size: 80KDObserved bind size: 80KD

ADDITIONAL INFORMATION

Related Product Information for anti-GRP78 BiP antibody	Description: Rabbit IgG polyclonal antibody for 78 kDa glucose-regulated protein(HSPA5) detection. Tested with WB, IHC-P 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.
References	1. Hendershot, L. M., Valentine, V. A., Lee, A. S., Morris, S. W., Shapiro, D. N. Localization of the gene encoding human BiP/GRP78, the endoplasmic reticulum cognate of the HSP70 family, to chromosome 9q34. Genomics 20: 281-284, 1994. 2. Law, M. L., Seeliger, M. B., Lee, A. S., Kao, F. T. Genetic mapping of the structural gene coding for a glucose-regulated protein (GRP78) of 78k-dalton to the long arm of human chromosome 9. (Abstract) Cytogenet. Cell Genet. 37: 518-519, 1984. 3. Shen, J., Chen, X., Hendershot, L., Prywes, R. ER stress regulation of ATF6 localization by dissociation of BiP/GRP78 binding and unmasking of Golgi localization signals. Dev. Cell 3: 99-111, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16507237
NCBI GeneID	3309
NCBI Accession #	NP_005338.1

NCBI GenBank Nucleotide #	NM_005347.4
UniProt Accession #	P11021 ; Q2EF78 ; Q9NPF1 ; Q9UK02 ; B0QZ61
Molecular Weight	72,333 Da
NCBI Official Full Name	78 kDa glucose-regulated protein
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	78 kDa glucose-regulated protein
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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/grp78-bip-antibody-immunohistochemistry-western-blot-elisa/46284>