



## GRP78/Bip Monoclonal Antibody(8G3)

Catalog No	BYab-03493
Isotype	IgG
Reactivity	Human;Rat
Applications	WB;IHC;IF
Gene Name	HSPA5
Protein Name	78 kDa glucose-regulated protein (GRP-78) (Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78) (Heat shock 70 kDa protein 5) (Immunoglobulin heavy chain-binding protein) (BiP)
Immunogen	Synthetic Peptide of GRP78/Bip
Specificity	GRP78/Bip protein detects endogenous levels of GRP78/Bip
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB 1:1000-2000, IHC 1:100-200. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	HSPA5; GRP78; 78 kDa glucose-regulated protein; GRP-78; Endoplasmic reticulum lumenal Ca(2+)-binding protein grp78; Heat shock 70 kDa protein 5; Immunoglobulin heavy chain-binding protein; BiP
Observed Band	78kD
Cell Pathway	Endoplasmic reticulum lumen . Melanosome . Cytoplasm . Cell surface . Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:12643545). Localizes to the cell surface of epithelial cells in response to high levels of free iron (PubMed:20484814, PubMed:24355926, PubMed:27159390)
Tissue Specificity	Articular cartilage,Brain,Cajal-Retzius cell,Cervix carcino
Function	disease:Autoantigen in rheumatoid arthritis [MIM:180300].,function:Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.,similarity:Belongs to the heat shock protein 70 family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Interacts with DNAJC1 (via J domain) (By similarity).

Nanjing BYabscience technology Co.,Ltd

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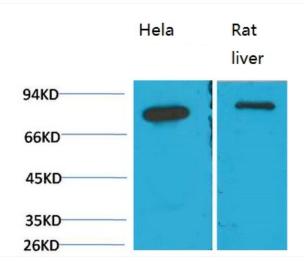


col PD	Imponent of an EIF2 complex at least composed of CUGBP1, CALR, CALR3, F2S1, EIF2S2, HSP90B1 and HSPA5. Part a large chaperone multiprotein mplex comprising CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, DIA4, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at ry low levels, CALR nor CANX. Interacts with TMEM132A.,
is i inte	he protein encoded by this gene is a member of the heat shock protein 70 SP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and nvolved in the folding and assembly of proteins in the ER. As this protein eracts with many ER proteins, it may play a key role in monitoring protein nsport through the cell.[provided by RefSeq, Sep 2010],
matters needing Av attention	oid repeated freezing and thawing!
Usage suggestions Th	is product can be used in immunological reaction related experiments. For ore information, please consult technical personnel.

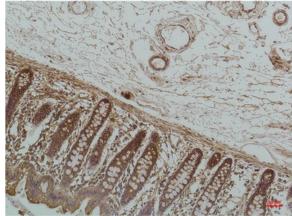




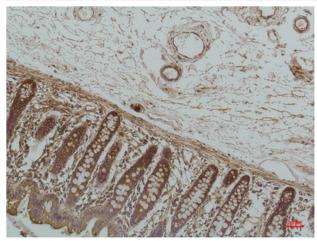
## **Products Images**



Western blot analysis of 1)Hela, 2) Rat LiverTissue with GRP78/Bip Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Human Colon Caricnoma using GRP78/BipMouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Breast Caricnoma using GRP78/BipMouse mAb diluted at 1:200.

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