



BiP/GRP78 mouse mAb

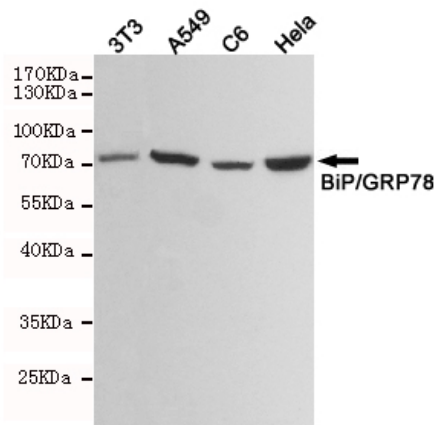
Catalog No	YP-Ab-03455
Isotype	IgG
Reactivity	Human;Mouse;Rat;Hamster
Applications	WB;IF;IP
Gene Name	hspa5
Immunogen	Purified recombinant human BiP/GRP78 protein expressed in E.coli.
Specificity	This antibody detects endogenous levels of BiP/GRP78 and does not cross-react with related proteins.
Formulation	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 epitope-specific immunogen.
Dilution	wb 1:1000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BIP;GRP78;HEL-S-89n;BiP/GRP78;HSP A5/GRP78;hspa5;78 kDa glucose regulated protein;78 kDa glucose-regulated protein;AL022860;AU019543;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_HUMAN;Heat shock 70 kDa protein 5;Heat Shock 70kDa Protein 5;Hsce70;HSPA 5;Immunoglobulin Heavy Chain Binding Protein;Immunoglobulin heavy chain-binding protein;mBiP;MIF2;Sez7.
Observed Band	78kD
Calculated Molecular Weight	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



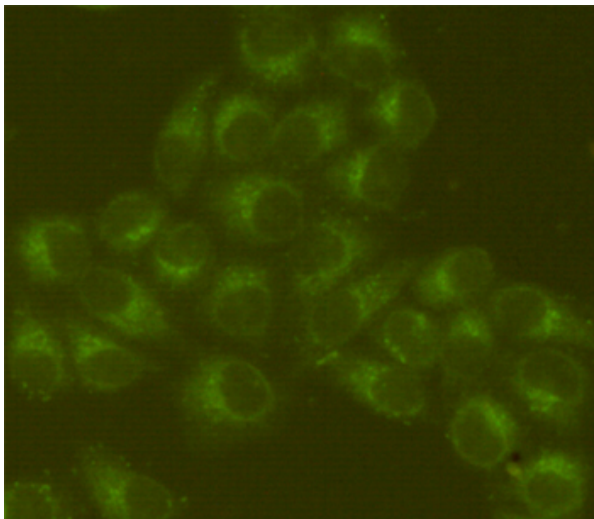
Function	disease:Autoantigen in rheumatoid arthritis [MIM:180300].,function:Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.,similarity:Belongs to the heat shock protein 70 family.,subcellular location:Identified by mass spectrometry in melanosome fractions from stage I to stage IV.,subunit:Interacts with DNAJC1 (via J domain) (By similarity). Component of an EIF2 complex at least composed of CUGBP1, CALR, CALR3, EIF2S1, EIF2S2, HSP90B1 and HSPA5. Part a large chaperone multiprotein complex comprising CABP1, DNAJB11, HSP90B1, HSPA5, HYOU, PDIA2, PDIA4, PPIB, SDF2L1, UGT1A1 and very small amounts of ERP29, but not, or at very low levels, CALR nor CANX. Interacts with TMEM132A.,
Background	The protein encoded by this gene is a member of the heat shock protein 70 (HSP70) family. It is localized in the lumen of the endoplasmic reticulum (ER), and is involved in the folding and assembly of proteins in the ER. As this protein interacts with many ER proteins, it may play a key role in monitoring protein transport through the cell.[provided by RefSeq, Sep 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



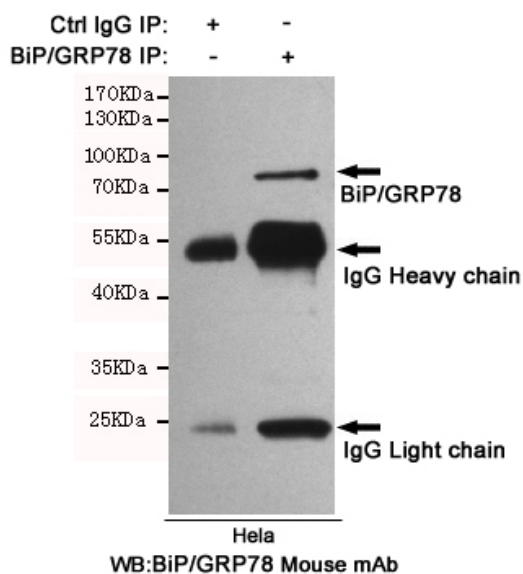
Products Images



Western blot analysis of extracts from 3T3, A549, C6 and HeLa cell lysates using BiP/GRP78 mouse mAb (1:1000 diluted). Predicted band size: 72KDa. Observed band size: 72KDa.



Immunofluorescent analysis of HeLa cells fixed by anhydrous methanol at -20°C and using BiP/GRP78 mouse mAb (dilution 1:200).



Immunoprecipitation of BiP/GRP78 from HeLa cell extracts using BiP/GRP78 Mouse mAb. Western blot was performed using BiP/GRP78 Mouse mAb.