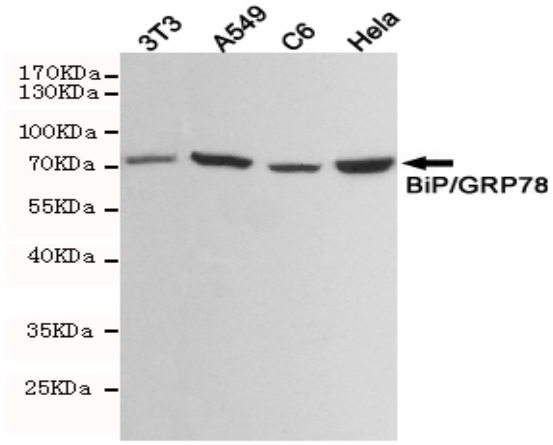
Best Tools for immunology Research

BiP/GRP78 mouse mAb

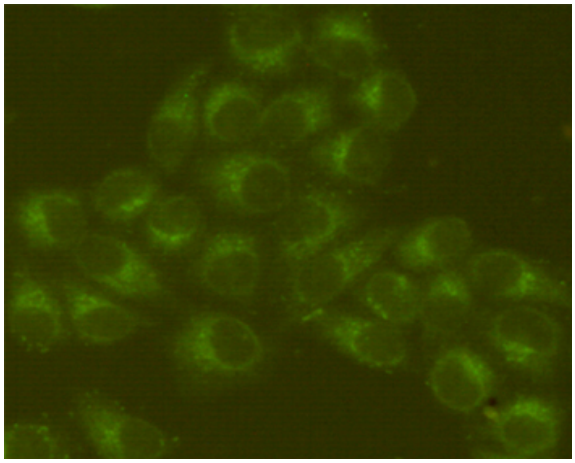
Catalog No :	YM1246
Reactivity :	Human;Mouse;Rat;Hamster
Applications :	WB;IF;IP
Target :	HSP A5/GRP78
Fields :	>>Protein export;>>Protein processing in endoplasmic reticulum;>>Antigen processing and presentation;>>Thyroid hormone synthesis;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Lipid and atherosclerosis
Gene Name :	hspa5
Human Gene Id :	3309
Human Swiss Prot No :	P11021
Mouse Swiss Prot No :	P20029
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
Dilution :	wb 1:1000. IF 1:50-200
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band :	78kD
Cell Pathway :	Antigen processing and presentation;Prion diseases;
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],
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.,
Subcellular Location :	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). .
Expression :	Articular cartilage,Brain,Cajal-Retzius cell,Cervix carcino
Tag :	orthogonal,ip
Sort :	1466
No3 :	ab212054
No4 :	1
Host :	Mouse
Modifications :	Unmodified

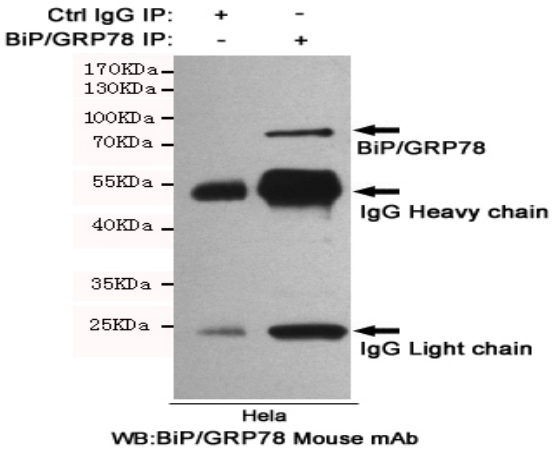
Products Images



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 fixed by anhydrous methanol at -20℃ 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.