

GRP78 BiP Polyclonal Antibody

Catalog No :	YT5858
Reactivity :	Human;Mouse;Rat;Fish
Applications :	WB;IHC;IF;ELISA
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 GRP78
Protein Name :	GRP78 BiP
Human Gene Id :	3309
Human Swiss Prot No :	P11021
Mouse Gene Id :	14828
Mouse Swiss Prot No :	P20029
Rat Swiss Prot No :	P06761
Immunogen :	Synthetic peptide from human protein at AA range: 505-570
Specificity :	The antibody detects endogenous GRP78 BiP
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000.IHC:f:1:50-300. ELISA 1:10000-20000. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum 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

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