

GRP78/Bip Monoclonal Antibody(8G3)

| | |
|------------------------------|--|
| Catalog No : | YM3508 |
| Reactivity : | Human;Rat |
| Applications : | WB;IHC;IF |
| 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 |
| Protein Name : | 78 kDa glucose-regulated protein (GRP-78) (Endoplasmic reticulum luminal Ca(2+)-binding protein grp78) (Heat shock 70 kDa protein 5) (Immunoglobulin heavy chain-binding protein) (BiP) |
| Human Gene Id : | 3309 |
| Human Swiss Prot No : | P11021 |
| Mouse Swiss Prot No : | P20029 |
| Rat Swiss Prot No : | P06761 |
| 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 |
| Dilution : | WB 1:1000-2000, IHC 1:100-200. IF 1:50-200 |
| Purification : | The antibody was affinity-purified from mouse ascites by affinity- |

chromatography using 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],

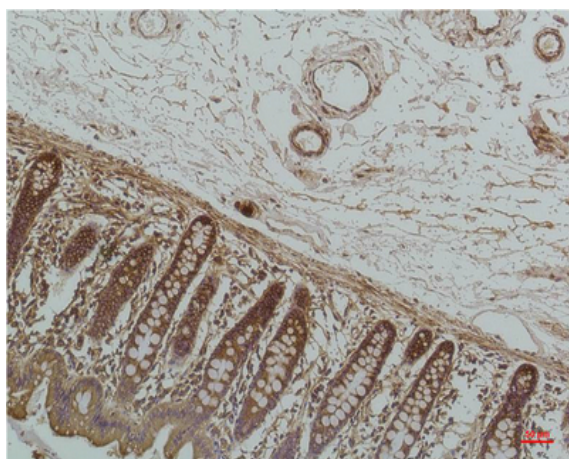
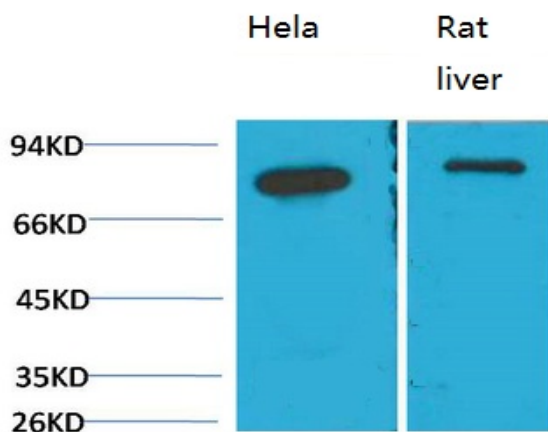
Function : disease:Autoantigen in rheumatoid arthritis [MIM:180300].,function:Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.,similarity:Belongs to the heat shock protein 70 family.,subcellular location:Identified by mass spectrometry in melanosome fractions 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). .

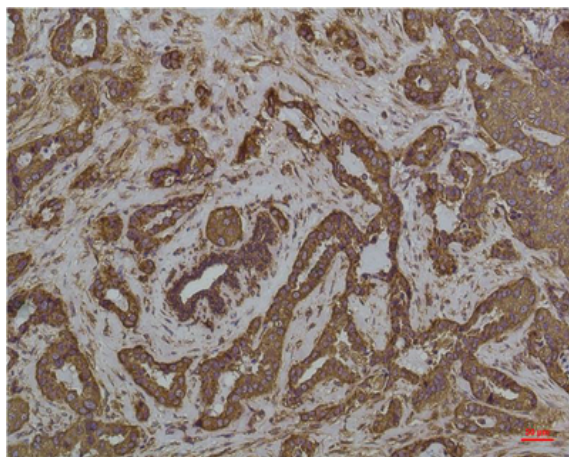
Expression : Articular cartilage,Brain,Cajal-Retzius cell,Cervix carcino

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 Carcinoma using GRP78/BipMouse mAb diluted at 1:200.



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