

GRP78/BiP (10C9) Mouse mAb

CatalogNo: YM3505

Key Features

Host Species

- Mouse

Reactivity

- Human,Rat

Applications

- WB,IHC,IF

MW

- 78kD (Observed)

Recommended Dilution Ratios

WB 1:1000-2000

IHC 1:100-200

IF 1:50-200

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Monoclonal

Clone Number 10C9

Immunogen Information

Immunogen Synthetic Peptide of GRP78/Bip

Specificity GRP78/Bip protein detects endogenous levels of GRP78/Bip

Target Information

Gene name

HSPA5 GRP78

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)

Organism	Gene ID	UniProt ID
Human	3309 ;	P11021 ;
Mouse	14828 ;	P20029 ;
Rat		P06761 ;

Cellular Localization

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). .

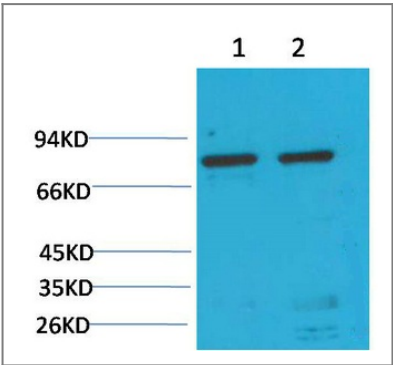
Tissue specificity

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

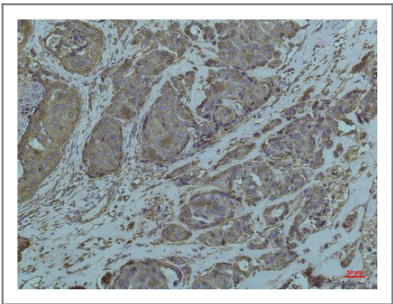
Function

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.,

Validation Data



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 Breast Caricnoma using GRP78/BipMouse mAb diluted at 1:200.

| Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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Mouse mAb

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