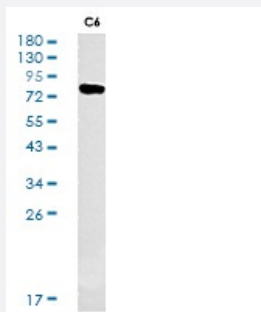


RecomAb™

HSPA5 recombinant monoclonal antibody, clone R03-5B3

Catalog # RAB01262 Size 100 uL

Applications



Western Blot

Western blot analysis of GRP78 BiP in C6 lysates using GRP78 BiP antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human HSPA5.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human GRP78 BiP.
Theoretical MW (kDa)	Calculated MW: 72 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C. For longer storage, aliquot and store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of GRP78 BiP in C6 lysates using GRP78 BiP antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Gene Info — HSPA5

Entrez GeneID[3309](#)**Protein Accession#**[P11021](#)**Gene Name**

HSPA5

Gene Alias

BIP, FLJ26106, GRP78, MIF2

Gene Description

heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)

Omim ID[138120](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) [PubMed 80 20977] pointed out that one of these, GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). Because so many ER proteins interact transiently with GRP78, it may play a key role in monitoring protein transport through the cell.[supplied by OMIM]

Other Designations

Heat-shock 70kD protein-5 (glucose-regulated protein, 78kD)|OTTHUMP00000022124|heat shock 70kD protein 5 (glucose-regulated protein, 78kD)|heat shock 70kDa protein 5

Pathway

- [Antigen processing and presentation](#)

- [Prion diseases](#)

Disease

- [Alzheimer disease](#)
- [Bipolar Disorder](#)
- [Carcinoma](#)
- [Cognition](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Infection](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Parkinson disease](#)
- [Schizophrenia](#)
- [Stress](#)