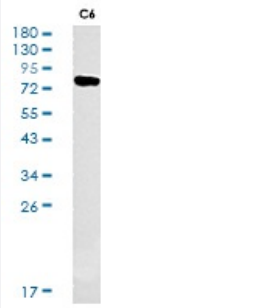
RecomAb™

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
Preparation Method	Mammalian cell (CHO) expression system
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.

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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 shoul d be handled by trained staff only.

Applications

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

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

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 invol ved 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 t hrough the cell.[supplied by OMIM
Other Designations	Heat-shock 70kD protein-5 (glucose-regulated protein, 78kD)|OTTHUMP00000022124|heat sho ck 70kD protein 5 (glucose-regulated protein, 78kD)|heat shock 70kDa protein 5

Pathway

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- 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

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