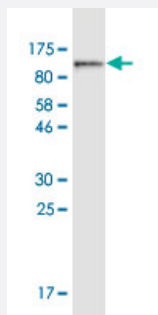


HSPA5 monoclonal antibody (M07), clone 2G11

Catalog # H00003309-M07

Size 100 ug

Applications



Western Blot detection against GST-pstS1-HSPA5 (98.16 KDa).

Specification

Product Description

Mouse monoclonal antibody raised against a full-length recombinant HSPA5.

Immunogen

HSPA5 (AAH20235.1, 19 a.a. ~ 654 a.a) full-length recombinant protein with GST-pstS1 tag.

Sequence

EEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTEGERLIGDAAKNQLT
SNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVEKTKPYIQVDIGGGQTKTFAPEEISAMVLTK
MKETAEAYLGKKVTHAVVTPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAAYGLDKREGEK
NILVFDLGGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQRMMEHFILYKKKTGKDVRKDNRA
VQKLRRVEKAKRALSSQHQARIEIESFYEGEDFSETLTRAKEELNMDLFRSTMKPVQKVLEDS
DLKKSIDEMLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAGVQAGVLSGDQDGTDLV
LLDVCPLTLGIETVGGVMTKLIPRNTTVPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLLGTFD
LTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEE
DKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSSEDKETMEKAVEEKIEWLESHQDADIEDFK
AKKKELEEVQPIISKLYGSAGPPPTGEEDTAEKDEL

Host

Mouse

Reactivity

Human

Interspecies Antigen Sequence

Mouse (99); Rat (99)

Isotype

IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against GST-pstS1-HSPA5 (98.16 KDa).

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — HSPA5

Entrez GeneID

[3309](#)

GeneBank Accession#

[BC020235.1](#)

Protein Accession#

[AAH20235.1](#)

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](#)