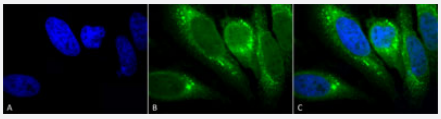
HSPA5 monoclonal antibody, clone 1H11-1H7 (FITC)

Catalog # MAB17321 Size 100 ug

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells with HSPA5 monoclonal antibody, clone 1H11-1H7 (FITC) (Cat # MAB17321). (A) DAPI (blue) nuclear stain. (B) Anti-HSPA5 Antibody. (C) Composite.

Specification

Product Description	Mouse monoclonal antibody raised against human HSPA5.
Immunogen	His-tagged human HSPA5.
Host	Mouse
Reactivity	Human
Form	Liquid
Conjugation	FITC
Purification	Protein G purification
Isotype	IgG2b
Recommend Usage	Immunocytochemistry (1:100) Immunofluorescence (1:100) Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide).

Storage Instruction	Store at -20°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunocytochemistry

  Immunocytochemical staining of HeLa cells with HSPA5 monoclonal antibody, clone 1H11-1H7 (FITC) (Cat # MAB17321). (A) DAPI (blue) nuclear stain. (B) Anti-HSPA5 Antibody. (C) Composite.
- Immunofluorescence

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

Publication Reference

- BiP internal ribosomal entry site activity is controlled by heat-induced interaction of NSAP1.

  Cho S, Park SM, Kim TD, Kim JH, Kim KT, Jang SK.

  Molecular and Cellular Biology 2007 Jan; 27(1):368.

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