

Datasheet

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

Catalog Number: MAB17321

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against human HSPA5.

Clone Name: 1H11-1H7

Immunogen: His-tagged human HSPA5.

Host: Mouse

Reactivity: Human

Applications: ICC, IF, WB

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

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.

Entrez GeneID: 3309

Gene Symbol: HSPA5

Gene Alias: BIP, FLJ26106, GRP78, MIF2

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 8020977] 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]

References:

1. 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. Mol Cell Biol. 2007 Jan;27(1):368-83. Epub 2006 Oct 30.