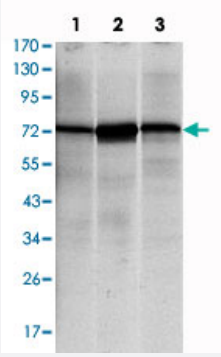
HSPA5 monoclonal antibody, clone 4E3

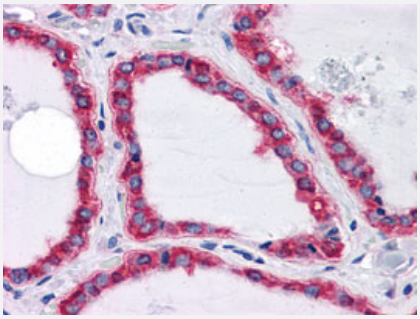
Catalog # MAB10689 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis using HSPA5 monoclonal antibody, clone 4E3 (Cat # MAB10689) against NIH/3T3 (1) , HeLa (2) and Jurkat (3) cell lysate.



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

Immunohistochemical analysis of paraffin-embedded human thyroid tissues using HSPA5 monoclonal antibody, clone 4E3 (Cat # MAB10689) .

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant HSPA5.
Immunogen	Recombinant protein corresponding to human HSPA5.
Host	Mouse
Theoretical MW (kDa)	78
Reactivity	Human
Form	Liquid

Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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

- Western Blot (Cell lysate)

  Western blot analysis using HSPA5 monoclonal antibody, clone 4E3 (Cat # MAB10689) against NIH/3T3 (1) , HeLa (2) and Jurkat (3) cell lysate.

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

  Immunohistochemical analysis of paraffin-embedded human thyroid tissues using HSPA5 monoclonal antibody, clone 4E3 (Cat # MAB10689) .

- Enzyme-linked Immunoabsorbent Assay

Gene Info — HSPA5

Entrez GeneID	3309
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 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
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