Mouse Monoclonal Antibody to HSPA5

Order Information

Catalog#	30028	
Size/Concentration	100μl	50μl
Price(¥)	2180	1280

Call 1-510-860-4615
+86-19375157864
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Web www.ProMab.com
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Description

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.Probably plays a role in facilitating the assembly of multimeric protein complexes inside the ER.The HSP70 proteins are ubiquitous molecular chaparones that are found in all organisms and tissue types. Like other members of the HSP70 family, BiP is a peptide-binding ATPase that is able to differentiate native proteins from unfolded polypeptides. BiP does not bind to fully folded and assembled proteins, except in the presence of other co-chaparones. BiP is involved in a number of key mechanisms and pathways including polypeptide translocation across the endoplasmic reticulum, folding, assembly, transport of secreted or membrane proteins, and the regulation of calcium homeostasis. Although BiP is relatively abundant, marked increases in BiP occur where there is an accumulation of unfolded polypeptides. For this reason, BiP has been identified as a marker for various disease states that are associated with secretory and transmembrane protein misfolding.

Protocal
WB - www.promab.com/protocol/wb.html
IHC - www.promab.com/protocol/ihc.html
ICC - www.promab.com/protocol/icc.html
HCM - www.promab.com/protocol/hcm.html
Antigen Sequence is available upon request.

Specification

Aliases : BIP; MIF2; GRP78; FLJ26106; HSPA5

Entrez GeneID : 3309

Swissprot : P11021

clone : 4E3

WB Predicted band size : 78kDa

Host/Isotype : Mouse IgG1

Storage : Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity : Human

Immunogen : Purified recombinant fragment of human HSPA5 expressed in E. Coli.

Formulation : Ascitic fluid containing 0.03% sodium azide.

Products and Services
- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

Application

WB	1/500 - 1/2000
IHC	1/200 - 1/1000
ELISA	1/10000

References

1. Int J Cancer. 2010 Apr 1;126(7):1562-9.
2. J Virol. 2009 Dec;83(23):12622-5.
3. Mod Pathol. 2010 Jan;23(1):45-53.

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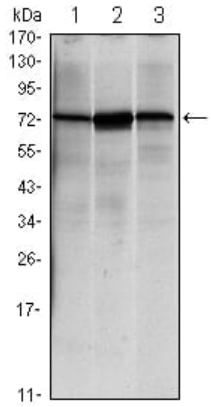
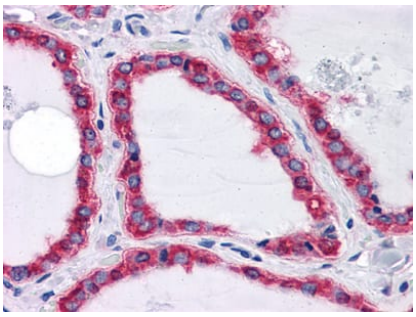


Western blot analysis using HSPA5 mouse mAb against NIH/3T3 (1), Hela (2) and Jurkat (3) cell lysate.



Immunohistochemical analysis of paraffin-embedded human Thyroid tissues using HSPA5 mouse mAb

For Research Only

Application Key:WB - Western Blot | **IHC** - Immunohistochemistry | **ICC** - Immunocytochemistry | **FCM** - Flow Cytometry | **ELISA** - Enzyme-linked Immunosorbent Assay | **IP** - Immunoprecipitation

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