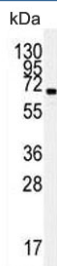


HSPA5 Antibody / GRP78 / BiP (F54266)

Catalog No.	Formulation	Size
F54266-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54266-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

[Bulk quote request](#)

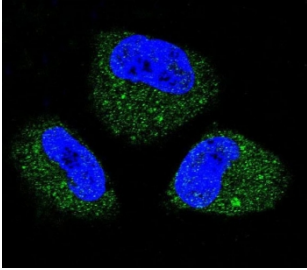
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	SAS precipitation
UniProt	P11021
Localization	Cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Immunofluorescence : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This HSPA5 antibody is available for research use only.



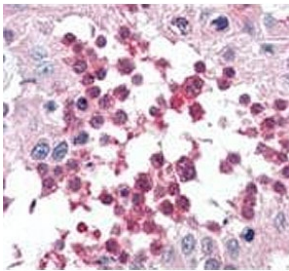
Western blot testing of human HL60 cell lysate with HSPA5 antibody. Predicted molecular weight: ~73 kDa, but routinely observed at 70-78 kDa.

kDa
130
95
72
55
36
28
17

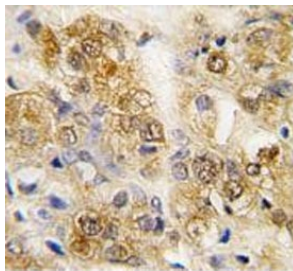
Western blot testing of mouse liver cell lysate with HSPA5 antibody. Predicted molecular weight: ~73 kDa, but routinely observed at 70-78 kDa.



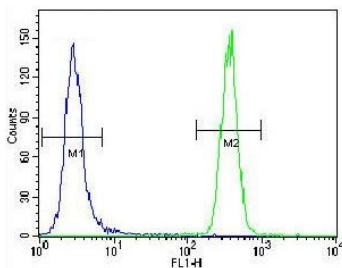
Immunofluorescent staining of fixed and permeabilized human NCI-H460 cells with HSPA5 antibody (green) and DAPI nuclear stain (blue).



IHC testing of FFPE human testis tissue with HSPA5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human prostate carcinoma with HSPA5 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of fixed and permeabilized human HeLa cells with HSPA5 antibody; Blue=isotype control, Green= HSPA5 antibody.

Description

In cooperation with other chaperones, HSP70s stabilize preexistent proteins against aggregation and mediate the folding of newly translated polypeptides in the cytosol as well as within organelles. The HSP70s in mitochondria and the endoplasmic reticulum play an additional role by providing a driving force for protein translocation. They are involved in signal transduction pathways in cooperation with HSP90. They participate in all these processes through their ability to recognize nonnative conformations of other proteins. They bind extended peptide segments with a net hydrophobic character exposed by polypeptides during translation and membrane translocation, or following stress-induced damage.

Application Notes

The stated application concentrations are suggested starting points. Titration of the HSPA5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Full length recombinant human protein was used as the immunogen for the HSPA5 Antibody.

Storage

Aliquot the HSPA5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.