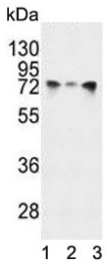
HSPA5 Antibody / GRP78 / BiP (F54813)

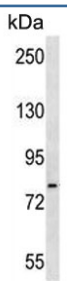
Catalog No.	Formulation	Size
F54813-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54813-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

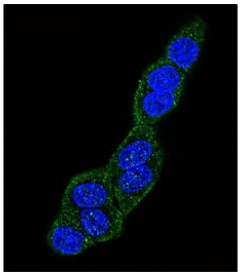
Availability	1-3 business days
Species Reactivity	Human, Zebrafish
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P11021
Applications	Immunofluorescence : 1:10-1:50 Western Blot : 1:500-1:1000 Immunohistochemistry (FFPE) : 1:50-1:100
Limitations	This HSPA5 antibody is available for research use only.



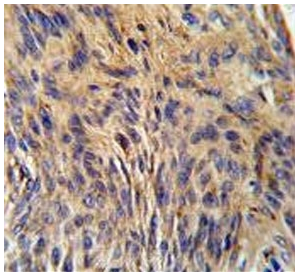
Western blot testing of human 1) HeLa, 2) A2058 and 3) NCI-H460 cell lysate with HSPA5 antibody. Predicted molecular weight: ~73 kDa, but routinely observed at 70-78 kDa.



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



Immunofluorescent staining of human HeLa cells with Cytokeratin 18 antibody (green) and DAPI nuclear stain (blue).



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

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.

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

A portion of amino acids 261-289 from the 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.