

HSPA5 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP5041c

Product Information

Application WB, IHC-P, IF, E

Primary Accession P11021

Other Accession <u>P06761</u>, <u>P20029</u>, <u>Q90593</u>, <u>Q0VCX2</u>

Reactivity Human, Zebrafish

Predicted Bovine, Chicken, Mouse, Rat

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB20813Antigen Region261-289

Additional Information

Other Names 78 kDa glucose-regulated protein, GRP-78, Endoplasmic reticulum lumenal

Ca(2+)-binding protein grp78, Heat shock 70 kDa protein 5, Immunoglobulin

heavy chain-binding protein, BiP, HSPA5, GRP78

Target/Specificity This HSPA5 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 261-289 amino acids from the Central

region of human HSPA5.

Dilution WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent

concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions HSPA5 Antibody (Center) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Background

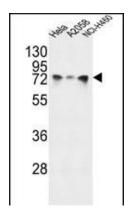
When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) [PubMed 8020977]

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.

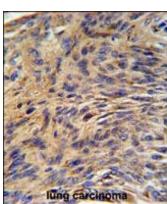
References

Zhao, C., et al. J. Med. Virol. 82(1):14-22(2010) Zhuang, L., et al. Mod. Pathol. 23(1):45-53(2010) Arnaudeau, S., et al. Proteomics 9(23):5316-5327(2009)

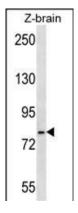
Images



HSPA5 Antibody (Center) (Cat. #AP5041c) western blot analysis in Hela,A2058,NCI-H460 cell line lysates (35ug/lane).This demonstrates the HSPA5 antibody detected the HSPA5 protein (arrow).

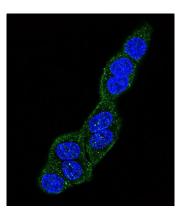


HSPA5 Antibody (Center) (Cat. #AP5041c) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HSPA5 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



HSPA5 Antibody (Center) (Cat. #AP5041c) western blot analysis in zebra fish brain tissue lysates (35ug/lane). This demonstrates the HSPA5 antibody detected the HSPA5 protein (arrow).

Confocal immunofluorescent analysis of HSPA5 Antibody (Center)(Cat#AP5041c) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Citations

- Transcriptome analysis of during intracellular infection reveals excludons are involved with the activation of a mitochondrion-like energy generation program
- Pharmacological activation of ATF6 remodels the proteostasis network to rescue pathogenic GABA receptors
 Proteostasis Regulators Restore Function of Epilepsy-Associated GABAReceptors

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.