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Anti-HSPH1 Antibody [KO/KD Validated]

Catalog # AP51273

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q92598
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96865

Additional Information

Gene ID	10808
Other Names	HSP105; HSP110; KIAA0201; Heat shock protein 105 kDa; Antigen NY-CO-25; Heat shock 110 kDa protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human HSPH1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

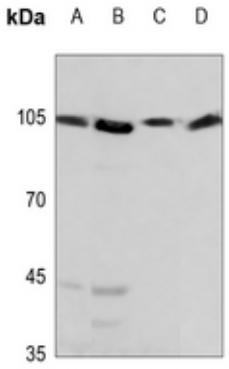
Protein Information

Name	HSPH1
Synonyms	HSP105, HSP110, KIAA0201
Function	Acts as a nucleotide-exchange factor (NEF) for chaperone proteins HSPA1A and HSPA1B, promoting the release of ADP from HSPA1A/B thereby triggering client/substrate protein release (PubMed:24318877). Prevents the aggregation of denatured proteins in cells under severe stress, on which the ATP levels decrease markedly. Inhibits HSPA8/HSC70 ATPase and chaperone activities (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells.

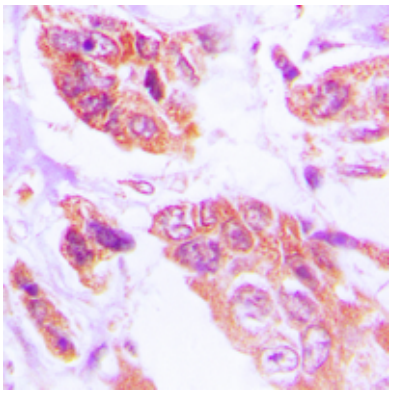
References

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Scanlan M.J.,et al.Int. J. Cancer 76:652-658(1998).
Nagase T.,et al.DNA Res. 3:321-329(1996).
Dunham A.,et al.Nature 428:522-528(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

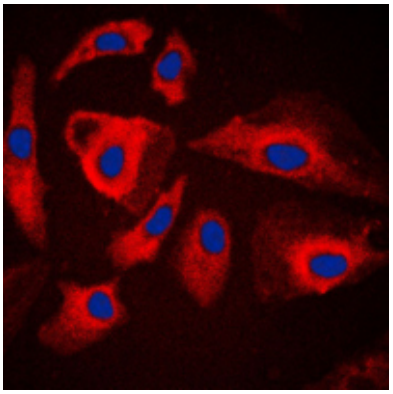
Images



Western blot analysis of HSPH1 expression in A375 (A), DLD (B), mouse testis (C), rat testis (D) whole cell lysates. (Predicted band size: 96 kD; Observed band size: 105 kD)

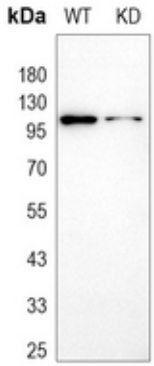


Immunohistochemical analysis of HSPH1 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HSPH1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Western blot analysis of HSPH1 expression in wild type (WT) and knockdown (KD) HeLa cell lysates.



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