

Anti-Hsp105 Antibody

Catalog # ABO10923

Product Information

Application	WB, IHC-P, IHC-F
Primary Accession	Q92598
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Heat shock protein 105 kDa(HSPH1) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	10808
Other Names	Heat shock protein 105 kDa, Antigen NY-CO-25, Heat shock 110 kDa protein, HSPH1, HSP105, HSP110, KIAA0201
Calculated MW	96865
Application Details	Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml, Rat, Human, Mouse Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Rat, Mouse
Subcellular Localization	Cytoplasm .
Tissue Specificity	Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells. .
Source	Eukaryota
Protein Name	Heat shock protein 105 kDa
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Hsp105(713-733aa EVMEWMNNVMNAQAKKSLDQD), different from the related mouse sequence by one amino acid, and different from the related rat sequence by two amino acids.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the heat shock protein 70 family.

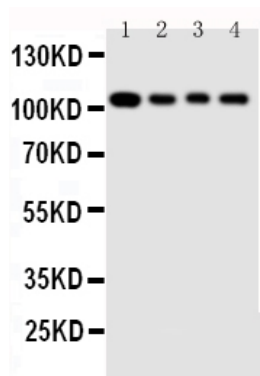
Protein Information

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.

Background

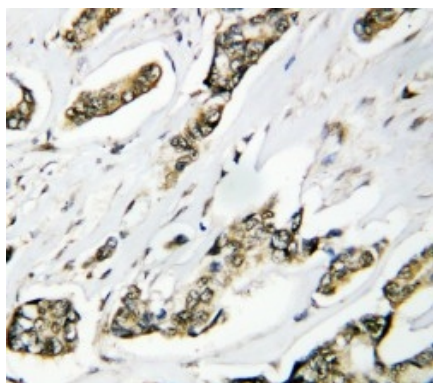
HSP105(HEAT-SHOCK 105/110-KD PROTEIN 1), also called HSPH1 or HSP110, is a protein that in humans is encoded by the HSPH1 gene. Immunohistochemical analysis localizes HSP105 mainly in the cytoplasm. Database analysis indicates that both HSP105 isoforms are highly conserved during evolution. By analysis of radiation hybrids and human/rodent hybrid cell lines, the HSPH1 gene is mapped to chromosome 13. Both HSP105-alpha and HSP105-beta are upregulated in HeLa cells exposed to heat shock. HSP105-alpha, but not HSP105-beta, is also upregulated in response to other cell stresses. Following heat shock, HSP105 relocates from a cytoplasmic to perinuclear position. Besides, HSP110 may thus constitute a major determinant for both prognosis and treatment response in colorectal cancer.

Images

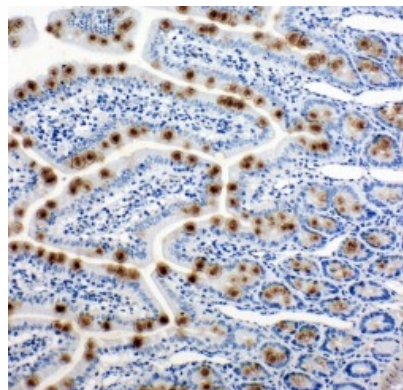


Anti-Hsp105 antibody, ABO10923, Western blotting
 Lane 1: Rat Ovary Tissue Lysate Lane 2: A549 Cell Lysate Lane 3: U87 Cell Lysate Lane 4: HELA Cell Lysate

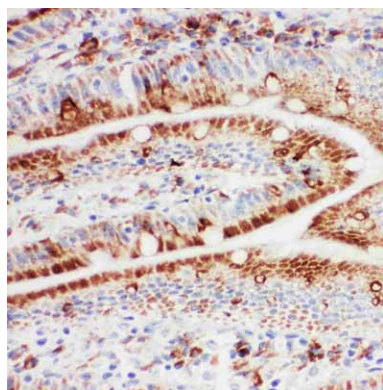
Anti-Hsp105 antibody, ABO10923, IHC(P)
 IHC(P): Human Mammary Cancer Tissue



Anti-Hsp105 antibody, ABO10923, IHC(P)IHC(P): Rat Intestine Tissue



Anti-Hsp105 antibody, ABO10923, IHC(F)IHC(F): Rat Intestine Tissue



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