

Rabbit anti-Human, Mouse HSP105 Polyclonal Antibody | anti-HSP105 antibody

HSP105 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321144	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HSP105; Polyclonal Antibody; HSP105 Antibody; Antigen NY CO 25; Antigen NY-CO-25; DKFZp686M05240; Heat shock 105kD alpha; Heat shock 105kD; Heat shock 105kD beta; Heat shock 105kDa protein 1; Heat shock 105kDa protein; Heat shock 105kDa/110kDa protein 1; Heat shock 110 kDa protein; Heat shock 110kDa protein; Heat shock protein 105 kDa; HS105_HUMAN; HSP105A; HSP105B; HSP110; HSPH 1; Hsph1; KIAA0201; NY CO 25; anti-HSP105 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	HSP105 antibody detects endogenous levels of HSP105
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	814
Applicable Applications for anti-HSP105 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HSP105
Subcellular Location	Cytoplasm.
Tissue Specificity	Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321144 staining K-562 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA321144 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis on HeLa cell lysate using HSP105 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP105 antibody	Description: HSP105 a molecular chaperone of the heat shock protein 70 family. Has ATPase activity. Expressed at especially high levels in mammalian brain and has been shown to suppress apoptosis in neuronal cells and to prevent the aggregation of proteins following heat shock. Known to interact with a variety of proteins including alpha-tubulin and the androgen receptor. 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). Subunit Structure: Interacts with HSPA8/HSC70 (By similarity). Interacts with HSPA1A (via NBD) and HSPA1B (via NBD) (PubMed:24318877). Post-translational Modifications: Phosphorylation on Ser-509 may be important for regulation of the HSPA8/HSC70 chaperone activity. Similarity: Belongs to the heat shock protein 70 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	557357685
NCBI GeneID	10808
NCBI Accession #	NP_001273432.1
NCBI GenBank Nucleotide #	NM_001286503.1
UniProt Accession #	Q92598; O95739; Q5TBM6; Q5TBM7; Q5TBM8; Q9UPC4; B4DYH1
Molecular Weight	Observed: 100 kDa Predicted: 97 kDa
NCBI Official Full Name	heat shock protein 105 kDa isoform 2
NCBI Official Synonym Full Names	heat shock protein family H (Hsp110) member 1
NCBI Official Symbol	HSPH1
NCBI Official Synonym Symbols	HSP105; HSP105A; HSP105B; NY-CO-25
NCBI Protein Information	heat shock protein 105 kDa
UniProt Protein Name	Heat shock protein 105 kDa
UniProt Gene Name	HSPH1
UniProt Synonym Gene Names	HSP105; HSP110; KIAA0201

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.