

Mouse anti-Human HSP105alpha Monoclonal Antibody | anti-HSP105alpha antibody

HSP105alpha antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11727	Mouse	Human	ELISA, Western Blot, Flow Cytometry, Functional Assay, Immunocytochemistry

PRODUCT SYNONYMS

HSP105alpha; Monoclonal Antibody; HSP105alpha antibody; Heat shock 105kDa/110kDa protein 1; HSPH1; HSP105-alpha; Heat shock 105kDa/110kDa protein 1 Antigen NY CO 25; DKFZp686M05240; Heat shock 105kD; Heat shock 105kD alpha; Heat shock 105kD beta; Heat shock 105kDa protein; Heat shock 105kDa protein 1; Heat shock 110kDa protein; Heat shock protein 105 kDa; HSP105A; HSP105B; HSP110; HSPH 1; KIAA0201; NY CO 25.; anti-HSP105alpha antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b heavy chain and kappa light chain
Clone Number	J1G12
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	858
Applicable Applications for anti-HSP105alpha antibody	ELISA, WB (Western Blot), FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry)
Application Notes	The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.
Antigen Species	Human
Immunogen	Recombinant human Hsp105 alpha (1-858aa) purified from E. coli
Clone	Anti-human Hsp105 ? mAb, clone J1G12, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Hsp105 ? protein.
Clone Note	Anti-human Hsp105 alpha mAb, clone J1G12, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Hsp105 alpha protein.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



FCM (Flow Cytometry)

Flow cytometry analysis of Hsp105alpha in Hep3B cell line, staining at 2-5ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



ICC (Immunocytochemistry)

ICC/IF analysis of Hsp105alpha in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Hsp105alpha antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Hsp105 alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: HepG2 cell lysate Lane 3.: NIH-3T3 cell lysate Lane 4.: MCF7 cell lysate Lane 5.: U-87 MG cell lysate Lane 6.: A549 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-HSP105alpha antibody	Hsp105 is a mammalian member of the HSP105/110 family, a diverged subgroup of the HSP70 family. HSP105 exists as two isoforms, alpha and beta. Hsp105 alpha associates with Hsp70/Hsc70 as complexes in vivo and regulates the chaperone activity of Hsp70/Hsc70 negatively in vitro and in vivo. Hsp105 alpha is constitutively expressed and also induced by various stress, whereas Hsp105beta, lacking 44 amino acids from Hsp105 alpha, is specifically expressed during mild heat shock. Although Hsp105 alpha is shown to localize in the cytoplasm of mammalian cells, cellular localization of Hsp105beta is not known
Product Categories/Family for anti-HSP105alpha antibody	Heat Shock Proteins
References	Wang XY., et al. (2001) J Immunol. 166 (1):490-7.; Yamagishi N., et al. (2006) Exp Cell Res. 312 (17):3215-23.; Saito Y., et al. (2007) Exp Cell Res. 313 (17):3707-17.

NCBI AND UNIPROT INFORMATION

NCBI GI #	42544159
NCBI GeneID	10808
NCBI Accession #	NP_006635
NCBI GenBank Nucleotide #	NM_006644.3
UniProt Accession #	Q92598; O95739; Q5TBM6; Q5TBM7; Q5TBM8; Q9UPC4; B4DYH1
Molecular Weight	97,460 Da
NCBI Official Full Name	heat shock protein 105 kDa isoform 1
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/hsp105alpha-antibody-clone-j1g12-western-blot-flow-cytometry-immunocytochemistry-elisa/11727>