

Rabbit Hsp105/HSPH1 Polyclonal Antibody | anti-Hsp105 antibody

Anti-Hsp105/HSPH1 Antibody

CATALOG # AAA124956	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Hsp105/HSPH1; Polyclonal Antibody; Anti-Hsp105/HSPH1 Antibody; Heat shock protein 105 kDa; Antigen NY-CO-25; Heat shock 110 kDa protein; HSPH1; HSP105; HSP110; KIAA0201; Heat shock 105kDa/110kDa protein 1; anti-Hsp105 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	814
Applicable Applications for anti-Hsp105 antibody	ELISA (Direct ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Hsp105 recombinant protein (Position: Y653-D858).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of Hsp105 using anti-Hsp105 antibody. Hsp105 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Hsp105 antibody. Hsp105 was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Hsp105 antibody. Hsp105 was detected in paraffin-embedded section of human testis tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Hsp105 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Hsp105 using anti-Hsp105 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: human COLO-320 whole cell lysates, Lane 4: human SGC-7901 whole cell lysates, Lane 5: human HepG2 whole cell lysates, Lane 6: human K562 whole cell lysates, Lane 7: human Jurkat whole cell lysates, Lane 8: human SK-OV-3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Hsp105 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Hsp105 at approximately 105KD. The expected band size for Hsp105 is at 97KD.

ADDITIONAL INFORMATION

Related Product Information for anti-Hsp105 antibody	Description: Rabbit IgG polyclonal antibody for Hsp105 detection. Tested with WB, IHC-P, Direct ELISA in Human; Mouse; Rat. 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 upregulate 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.
References	1. Ishihara, K., Yasuda, K., Hatayama, T. Molecular cloning, expression and localization of human 105 kDa heat shock protein, hsp105. Biochim. Biophys. Acta 1444: 138-142, 1999. 2. Dorard, C., de Thonel, A., Collura, A., Marisa, L., Svrcek, M., Lagrange, A., Jegu, G., Wanherdrick, K., Joly, A. L., Buhard, O., Gobbo, J., Penard-Lacronique, V., and 16 others. Expression of a mutant HSP110 sensitizes colorectal cancer cells to chemotherapy and improves disease prognosis. Nature Med. 17: 1283-1289, 2011.

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	92,116 Da
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hsp105-hsph1-antibody-direct-elisa-immunohistochemistry-western-blot-elisa/124956>