Rabbit HSPA1L Polyclonal Antibody | anti-HSPA1L antibody

Anti-HSPA1L Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19810	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA**

PRODUCT SYNONYMS

HSPA1L; Polyclonal Antibody; Anti-HSPA1L Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-HSPA1L antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-HSPA1L antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Mouse, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human HSPA1L recombinant protein (Position: D82-Q614). Human HSPA1L shares 95.3% and 95.1% amino acid (aa) sequence identity with mouse and rat HSPA1L, respectively.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES

FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of HepG2 cells using anti-HSPA1L antibody (AAA19810).Overlay histogram showing HepG2 cells stained with AAA19810 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HSPA1L Antibody (AAA19810, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

IF (Immunofluorescence)

Figure 6. IF analysis of HSPA1L using anti-HSPA1L antibody (AAA19810).HSPA1L was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HSPA1L Antibody (AAA19810) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HSPA1L Antibody (AAA19810) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HSPA1L Antibody (AAA19810) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HSPA1L Antibody (AAA19810) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human HepG2 whole cell lysates,Lane 3: human MCF-7 whole cell lysates,Lane 4: human 293T whole cell lysates,Lane 5: rat liver tissue lysates,Lane 6: rat testis tissue lysates,Lane 7: mouse liver tissue lysates,Lane 8: mouse testis tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-HSPA1L antigen affinity purified polyclonal antibody (#AAA19810) at 0.25ug/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 1:5000 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 HSPA1L at approximately 70 kDa. The expected band size for HSPA1L is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPA1L antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-HSPA1L antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Hasson, S. A., Kane, L. A., Yamano, K., Huang, C.-H., Sliter, D. A., Buehler, E., Wang, C., Heman-Ackah, S. M., Hessa, T., Guha, R., Martin, S. E., Youle, R. J. High-content genome-wide RNAi screens identify regulators of parkin upstream of mitophagy. Nature 504: 291-295, 2013.2. Hetherington, S., Hughes, A. R., Mosteller, M., Shortino, D., Baker, K. L., Spreen, W., Lai, E., Davies, K., Handley, A., Dow, D. J., Fling, M. E., Stocum, M., Bowman, C., Thurmond, L. M., Roses, A. D. Genetic variations in HLA-B region and hypersensitivity reactions to abacavir. Lancet 359: 1121-1122, 2002. 3. Mallal, S., Nolan, D., Witt, C., Masel, G., Martin, A. M., Moore, C., Sayer, D., Castley, A., Mamotte, C., Maxwell, D., James, I., Christiansen, F. T. Association between presence of HLA-B*5701, HLA-DR7, and HLA-DQ3 and hypersensitivity to HIV-1 reverse-transcriptase inhibitor abacavir. Lancet 359: 727-732, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	124256496
NCBI GeneID	3305
NCBI Accession #	NP_005518.3

NCBI GenBank Nucleotide #	NM_005527.3
UniProt Accession #	P34931; O75634; Q2HXR3; Q8NE72; Q96QC9; Q9UQM1; A6NNB0; B0UXW8
Molecular Weight	70,375 Da
NCBI Official Full Name	heat shock 70 kDa protein 1-like
NCBI Official Synonym Full Names	heat shock 70kDa protein 1-like
NCBI Official Symbol	HSPA1L
NCBI Official Synonym Symbols	HSP70T; hum70t; HSP70-1L; HSP70-HOM
NCBI Protein Information	heat shock 70 kDa protein 1-like; heat shock 70 kDa protein 1L; heat shock 70kD protein-like 1; heat shock 10kDa protein 1-like; heat shock 70 kDa protein 1-Hom
UniProt Protein Name	Heat shock 70 kDa protein 1-like
UniProt Gene Name	**HSPA1L**
UniProt Synonym Gene Names	Heat shock 70 kDa protein 1L; HSP70-Hom
UniProt Entry Name	HS71L_HUMAN

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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