

Rabbit HSPA4 Polyclonal Antibody | anti-HSPA4 antibody

Anti-HSPA4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19794	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

HSPA4; Polyclonal Antibody; Anti-HSPA4 Antibody Picoband; anti-HSPA4 antibody

PRODUCT SPECIFICATIONS

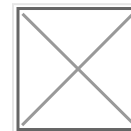
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-HSPA4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Rat ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human HSPA4, which shares 95.2% amino acid (aa) sequence identity with both mouse and rat HSPA4.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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 6. Flow Cytometry analysis of MOLT-4 cells using anti-HSPA4 antibody (AAA19794). Overlay histogram showing MOLT-4 cells stained with AAA19794 (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-HSPA4 Antibody (AAA19794, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



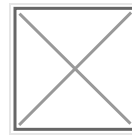
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of 293T cells using anti-HSPA4 antibody (AAA19794). Overlay histogram showing 293T cells stained with AAA19794 (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-HSPA4 Antibody (AAA19794, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of HSPA4 using anti-HSPA4 antibody (AAA19794).HSPA4 was detected in a paraffin-embedded section of mouse ovary tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HSPA4 Antibody (AAA19794) 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-HSPA4 Antibody (AAA19794) 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 K562 whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: rat C6 whole cell lysates,Lane 5: mouse brain tissue lysates,Lane 6: mouse NIH/3T3 whole cell lysates,Lane 7: mouse Raw264.7 whole cell 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-HSPA4 antigen affinity purified polyclonal antibody (#AAA19794) at 0.5ug/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 (16 kDa.



WB (Western Blot)

Figure 1. Western blot analysis of HSPA4 using anti-HSPA4 antibody (AAA19794).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 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: rat brain tissue lysates,Lane 4: rat C6 whole cell lysates,Lane 6: mouse brain tissue lysates,Lane 7: mouse NIH/3T3 whole cell lysates,Lane 8: mouse Raw264.7 whole cell 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-HSPA4 antigen affinity purified polyclonal antibody (#AAA19794) 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-DyLight 647 Conjugated secondary antibody at a dilution of 1:2000 for 1.5 hour at RT. A specific band was detected for HSPA4 at approximately 110 kDa. The expected band size for HSPA4 is at 96,14 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPA4 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-HSPA4 antibody	Primary Antibodies
References	1. Fathallah, D. M., Cherif, D., Dellagi, K., Arnaout, M. A. Molecular cloning of a novel human hsp70 from a B cell line and its assignment to chromosome 5. J. Immun. 151: 810-813, 1993. Note: Erratum: J. Immun. 151: 6616 only, 1993.2. Gross, M. B. Personal Communication. Baltimore, Md. 10/22/2020.3. Mohamed, B. A., Barakat, A. Z., Held, T., Elkenani, M., Muhlfeld, C., Manner, J., Adham, I. M. Respiratory distress and early neonatal lethality in Hspa4l/Hspa4 double-mutant mice. Am. J. Resp. Cell Molec. Biol. 50: 817-824, 2014.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38327039
NCBI GeneID	3308
NCBI Accession #	NP_002145.3
NCBI GenBank Nucleotide #	NM_002154.3
UniProt Accession #	P34932; O95756; Q2TAL4
Molecular Weight	94,331 Da
NCBI Official Full Name	heat shock 70 kDa protein 4
NCBI Official Synonym Full Names	heat shock 70kDa protein 4
NCBI Official Symbol	HSPA4
NCBI Official Synonym Symbols	RY; APG-2; HSPH2; hsp70; hsp70RY; HS24/P52
NCBI Protein Information	heat shock 70 kDa protein 4; hsp70 RY; heat shock 70kD protein 4; heat shock protein, 110 kDa; heat shock 70-related protein APG-2
UniProt Protein Name	Heat shock 70 kDa protein 4

UniProt Gene Name	HSPA4
UniProt Synonym Gene Names	APG2
UniProt Entry Name	HSP74_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/hspa4-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/19794>