

## Rabbit HSPA6 Polyclonal Antibody | anti-HSPA6 antibody

Anti-HSPA6 Antibody Picoband

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                                                         |
|-----------|--------|-------------------|----------------------------------------------------------------------------------------------------------------------|
| AAA19546  | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

HSPA6; Polyclonal Antibody; Anti-HSPA6 Antibody Picoband; anti-HSPA6 antibody

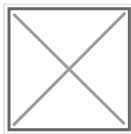
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactivity                                      | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                          |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                   |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-HSPA6 antibody | ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                        |
| Application Notes                               | WB: 0.1-0.25 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human<br>ICC/IF: 5 ug/ml, Human<br>FC/FACS: 1-3 ug/1x10 <sup>6</sup> cells, Human<br>Direct ELISA: 0.1-0.5 ug/ml, Human<br>Tested Species: In-house tested species with positive results.<br>Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC. |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                       | E Coli-derived human HSPA6 recombinant protein (Position: E516-D643).                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                         | Store 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.                                                                                                                                                                               |



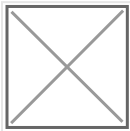
FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of Caco-2 cells using anti-HSPA6 antibody (AAA19546).Overlay histogram showing Caco-2 cells stained with AAA19546 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HSPA6 Antibody (AAA19546, 1 ug/1x10<sup>6</sup> 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 (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



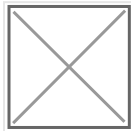
IF (Immunofluorescence)

Figure 6. IF analysis of HSPA6 using anti-HSPA6 antibody (AAA19546).HSPA6 was detected in an immunocytochemical section of PC-3 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-HSPA6 Antibody (AAA19546) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 5. IHC analysis of HSPA6 using anti-HSPA6 antibody (AAA19546).HSPA6 was detected in a paraffin-embedded section of human tonsil 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 2 ug/ml rabbit anti-HSPA6 Antibody (AAA19546) 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.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of HSPA6 using anti-HSPA6 antibody (AAA19546).HSPA6 was detected in a paraffin-embedded section of human metaplasia of squamous cells of the renal pelvis 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 2 ug/ml rabbit anti-HSPA6 Antibody (AAA19546) 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.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of HSPA6 using anti-HSPA6 antibody (AAA19546).HSPA6 was detected in a paraffin-embedded section of human signet ring cell carcinoma of the stomach 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 2 ug/ml rabbit anti-HSPA6 Antibody (AAA19546) 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of HSPA6 using anti-HSPA6 antibody (AAA19546).HSPA6 was detected in a paraffin-embedded section of human esophageal cancer 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 2 ug/ml rabbit anti-HSPA6 Antibody (AAA19546) 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.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-HSPA6 antibody | Heat shock 70 kDa protein 6 is a protein that in humans is encoded by the HSPA6 gene. HSPA6 (also known as HSP70B) is a member of the HSPA (HSP70) family of heat-shock proteins which are highly conserved chaperons implicated in protein folding, protein refolding, protein transport, and protein targeting. Human HSP70B is known to be strictly inducible and shows very low or no basal expression levels in most cells. HSPA6 induction has been exploited as a reasonable biomarker of cellular stresses and its mRNA expression levels have been shown to be significantly induced against a variety of cellular stresses. This antibody was raised against the C-terminal region of human HSPA6 and it may cross-react with HSPA1 (HSP70), HSPA1L and HSPA2. |
| Product Categories/Family for anti-HSPA6 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                     |                                |
|---------------------|--------------------------------|
| NCBI GI #           | 34978357                       |
| NCBI GeneID         | 3310                           |
| UniProt Accession # | P17066; Q1HBA8; Q8IYK7; Q9BT95 |

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| Molecular Weight                 | 643                                                                                            |
| NCBI Official Full Name          | Heat shock 70 kDa protein 6                                                                    |
| NCBI Official Synonym Full Names | heat shock 70kDa protein 6 (HSP70B')                                                           |
| NCBI Official Symbol             | HSPA6                                                                                          |
| NCBI Protein Information         | heat shock 70 kDa protein 6; heat shock 70 kDa protein B'; heat shock 70kD protein 6 (HSP70B') |
| UniProt Protein Name             | Heat shock 70 kDa protein 6                                                                    |
| UniProt Gene Name                | <b>HSPA6</b>                                                                                   |
| UniProt Synonym Gene Names       | HSP70B'                                                                                        |
| UniProt Entry Name               | HSP76_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hspa6-antibody-flow-cytometry-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-elisa/19546>