

## Rabbit PSMB4 Polyclonal Antibody | anti-PSMB4 antibody

Anti-PSMB4 Antibody Picoband

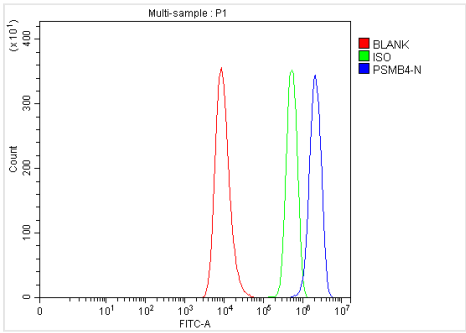
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                |
|-----------|--------|-------------------|-----------------------------------------------------------------------------|
| AAA19537  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

PSMB4; Polyclonal Antibody; Anti-PSMB4 Antibody Picoband; anti-PSMB4 antibody

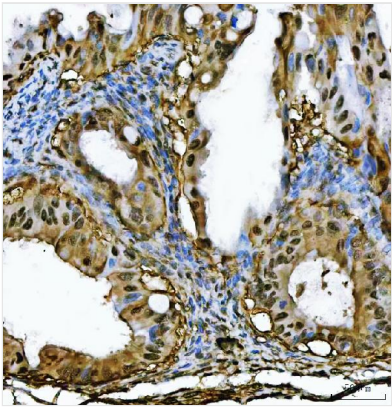
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-PSMB4 antibody | WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA                                                                                                                                                                                                                                                                                               |
| Application Notes                               | WB: 0.25-0.5 ug/ml, Human, Mouse, Rat<br>IHC-P: 2-5 ug/ml, Human, Rat<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). |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                                                                                                                                                                     |
| Immunogen                                       | E Coli-derived human PSMB4 recombinant protein (Position: Q20-E264).                                                                                                                                                                                                                                                                                                          |
| 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.                                                                                                                                                  |



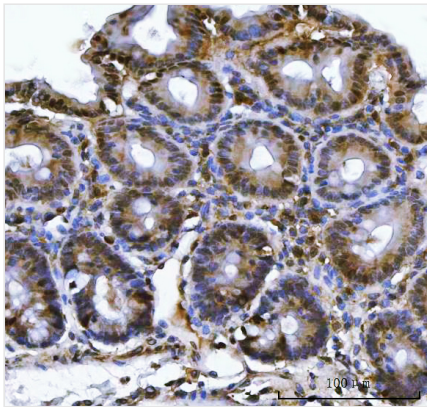
FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of HEL cells using anti-PSMB4 antibody (AAA19537).Overlay histogram showing HEL cells stained with AAA19537 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PSMB4 Antibody (AAA19537, 1 ug/1x10^6 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/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



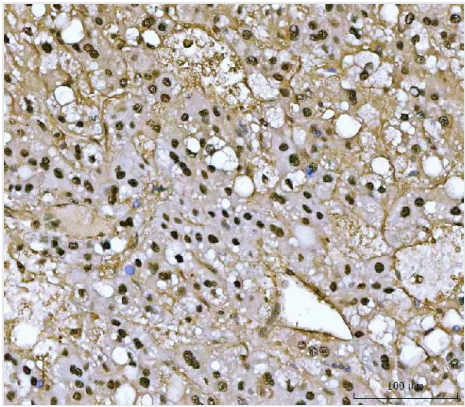
IHC (Immunohistochemistry)

Figure 6. IHC analysis of PSMB4 using anti-PSMB4 antibody (AAA19537).PSMB4 was detected in a paraffin-embedded section of human ovarian 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-PSMB4 Antibody (AAA19537) 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 with DAB as the chromogen.



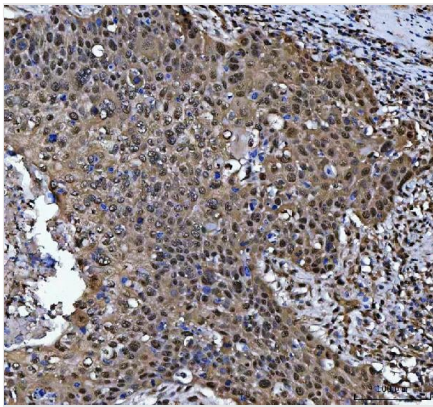
IHC (Immunohistochemistry)

Figure 7. IHC analysis of PSMB4 using anti-PSMB4 antibody (AAA19537).PSMB4 was detected in a paraffin-embedded section of rat 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-PSMB4 Antibody (AAA19537) 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 with DAB as the chromogen.



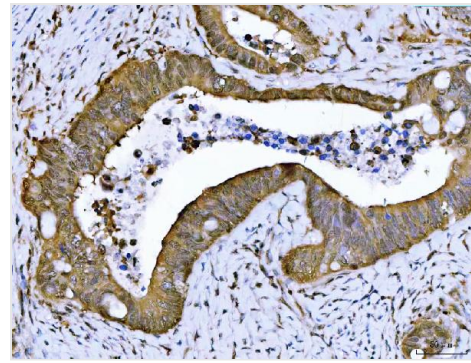
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PSMB4 using anti-PSMB4 antibody (AAA19537).PSMB4 was detected in a paraffin-embedded section of human liver 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-PSMB4 Antibody (AAA19537) 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 with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 4. IHC analysis of PSMB4 using anti-PSMB4 antibody (AAA19537). PSMB4 was detected in a paraffin-embedded section of human esophageal squamous carcinoma 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-PSMB4 Antibody (AAA19537) 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 with DAB as the chromogen.



#### IHC (Immunohistochemistry)

Figure 3. IHC analysis of PSMB4 using anti-PSMB4 antibody (AAA19537). PSMB4 was detected in a paraffin-embedded section of human colorectal adenocarcinoma 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-PSMB4 Antibody (AAA19537) 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 with DAB as the chromogen.

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-PSMB4 antibody</b> | Proteasome subunit beta type-4 also known as 20S proteasome subunit beta-7 (based on systematic nomenclature) is a protein that in humans is encoded by the PSMB4 gene. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. |
| <b>Product Categories/Family for anti-PSMB4 antibody</b>   | <a href="#">Primary Antibodies</a> , <a href="#">Rabbit Polyclonal Antibodies</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                                                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">22538467</a>                                                                                                                                                                                                                        |
| <b>NCBI GeneID</b>                      | <a href="#">5692</a>                                                                                                                                                                                                                            |
| <b>NCBI Accession #</b>                 | <a href="#">NP_002787.2</a>                                                                                                                                                                                                                     |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_002796.2</a>                                                                                                                                                                                                                     |
| <b>UniProt Accession #</b>              | <a href="#">P28070</a> ; <a href="#">P31148</a> ; <a href="#">Q5SZS5</a> ; <a href="#">Q6IBI4</a> ; <a href="#">Q969L6</a> ; <a href="#">B2R9L3</a>                                                                                             |
| <b>Molecular Weight</b>                 | 29,204 Da                                                                                                                                                                                                                                       |
| <b>NCBI Official Full Name</b>          | proteasome subunit beta type-4                                                                                                                                                                                                                  |
| <b>NCBI Official Synonym Full Names</b> | proteasome (prosome, macropain) subunit, beta type, 4                                                                                                                                                                                           |
| <b>NCBI Official Symbol</b>             | PSMB4                                                                                                                                                                                                                                           |
| <b>NCBI Official Synonym Symbols</b>    | HN3; HsN3; PROS26; PROS-26                                                                                                                                                                                                                      |
| <b>NCBI Protein Information</b>         | proteasome subunit beta type-4; 26 kDa prosomal protein; hsBPROS26; macropain beta chain; multicatalytic endopeptidase complex beta chain; proteasome beta chain; proteasome chain 3; proteasome subunit HsN3; proteasome subunit, beta type, 4 |
| <b>UniProt Protein Name</b>             | Proteasome subunit beta type-4                                                                                                                                                                                                                  |

|                            |                                  |
|----------------------------|----------------------------------|
| UniProt Gene Name          | PSMB4                            |
| UniProt Synonym Gene Names | PROS26; HsBPROS26; PROS-26; HsN3 |
| UniProt Entry Name         | PSB4_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/psmb4-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/19537>