

## Rabbit PSMD2 Polyclonal Antibody | anti-PSMD2 antibody

Anti-PSMD2 Antibody Picoband

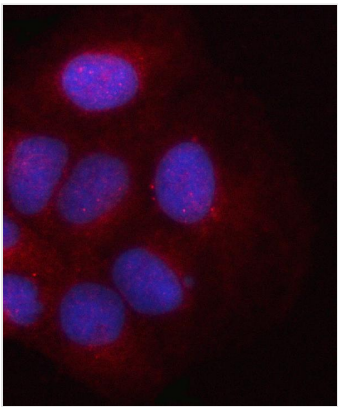
| CATALOG # | HOST   | REACTIVITY         | APPLICATIONS                                                 |
|-----------|--------|--------------------|--------------------------------------------------------------|
| AAA127391 | Rabbit | Human, Monkey, Rat | ELISA, Immunofluorescence, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

PSMD2; Polyclonal Antibody; Anti-PSMD2 Antibody Picoband; AP-2 complex subunit beta; ubiquitin specific peptidase 21; Ubiquitin carboxyl-terminal hydrolase 21; Deubiquitinating enzyme 21; Ubiquitin thioesterase 21; Ubiquitin-specific-processing protease 21; USP21; USP23; PP1490; anti-PSMD2 antibody

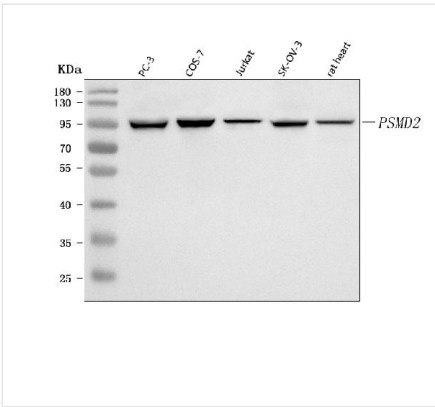
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                      | Human, Monkey, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                     | Highly Expressed in heart, pancreas and skeletal muscle. Also Expressed in brain, placenta, liver and kidney, and at very low level in lung.                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                     | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-PSMD2 antibody | ELISA, IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                       | E coli-derived human PSMD2 recombinant protein (Position: K219-L908).                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Subcellular Localization                        | Nucleus, Cytoplasm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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                                | Deubiquitinates histone H2A, a specific tag for epigenetic transcriptional repression, thereby acting as a coactivator. Deubiquitination of histone H2A releases the repression of di- and trimethylation of histone H3 at 'Lys-4', resulting in regulation of transcriptional initiation. Regulates gene expression via histone H2A deubiquitination. Also capable of removing NEDD8 from NEDD8 conjugates but has no effect on Sentrin-1 conjugates. Deubiquitinates BAZ2A/TIP5 leading to its stabilization. |
| 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.                                                                                                                                                                                                                                                                                          |



IF (Immunofluorescence)

Figure 2. IF analysis of PSMD2 using anti-PSMD2 antibody (AAA127391).PSMD2 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-PSMD2 Antibody (AAA127391) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 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.



WB (Western Blot)

Figure 1. Western blot analysis of PSMD2 using anti-PSMD2 antibody (AAA127391).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 PC-3 whole cell lysates,Lane 2: monkey COS-7 whole cell lysates,Lane 3: human Jurkat whole cell lysates,Lane 4: human SK-OV-3 whole cell lysates,Lane 5: rat heart 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-PSMD2 antigen affinity purified polyclonal antibody (#AAA127391) 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 PSMD2 at approximately 97 kDa. The expected band size for PSMD2 is at 97,100 kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PSMD2 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-PSMD2 antibody   | Primary Antibodies; Cofactors; Vitamins/Minerals; Metabolism; Mitochondrial; Mitochondrial Markers; Mitochondrial Metabolism; Pathways and Processes; Signal Transduction; Vitamins/Minerals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| References                                          | 1. Boldin, M. P., Mett, I. L., Wallach, D. A protein related to a proteasomal subunit binds to the intracellular domain of the p55 TNF receptor upstream to its 'death domain.' FEBS Lett. 367: 39-44, 1995. 2. Dunbar, J. D., Song, H. Y., Guo, D., Wu, L.-W., Donner, D. B. Two-hybrid cloning of a gene encoding TNF receptor-associated protein 2, a protein that interacts with the intracellular domain of the type 1 TNF receptor: identity with subunit 2 of the 26S protease. J. Immun. 158: 4252-4259, 1997. 3. Tsurumi, C., Shimizu, Y., Saeki, M., Kato, S., Demartino, G. N., Slaughter, C. A., Fujimuro, M., Yokosawa, H., Yamasaki, M., Hendil, K. B., Toh-E, A., Tanahashi, N., Tanaka, K. cDNA cloning and functional analysis of the p97 subunit of the 26S proteasome, a polypeptide identical to the type-1 tumor-necrosis-factor-receptor-associated protein-2/55.11. Europ. J. Biochem. 239: 912-921, 1996. |

NCBI AND UNIPROT INFORMATION

|                           |                                                |
|---------------------------|------------------------------------------------|
| NCBI GI #                 | 25777602                                       |
| NCBI GeneID               | 5708                                           |
| NCBI Accession #          | NP_002799.3                                    |
| NCBI GenBank Nucleotide # | NM_002808.3                                    |
| UniProt Accession #       | Q13200; Q12932; Q15321; Q53XQ4; Q96I12         |
| Molecular Weight          | 100,200 Da                                     |
| NCBI Official Full Name   | 26S proteasome non-ATPase regulatory subunit 2 |

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Synonym Full Names | proteasome (prosome, macropain) 26S subunit, non-ATPase, 2                                                                                                                                                                                                      |
| NCBI Official Symbol             | PSMD2                                                                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | S2; P97; Rpn1; TRAP2                                                                                                                                                                                                                                            |
| NCBI Protein Information         | 26S proteasome non-ATPase regulatory subunit 2; 55.11 protein; protein 55.11; TNFR-associated protein 2; 26S proteasome subunit p97; 26S proteasome regulatory subunit S2; 26S proteasome regulatory subunit RPN1; tumor necrosis factor receptor-associated pr |
| UniProt Protein Name             | 26S proteasome non-ATPase regulatory subunit 2                                                                                                                                                                                                                  |
| UniProt Gene Name                | <b>PSMD2</b>                                                                                                                                                                                                                                                    |
| UniProt Synonym Gene Names       | TRAP2                                                                                                                                                                                                                                                           |
| UniProt Entry Name               | PSMD2_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/psmd2-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/127391>