

## Mouse PSMB4 Monoclonal Antibody | anti-PSMB4 antibody

PSMB4 antibody

|                               |                      |                                                                       |
|-------------------------------|----------------------|-----------------------------------------------------------------------|
| CATALOG #<br><b>AAA108107</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-----------------------------------------------------------------------|

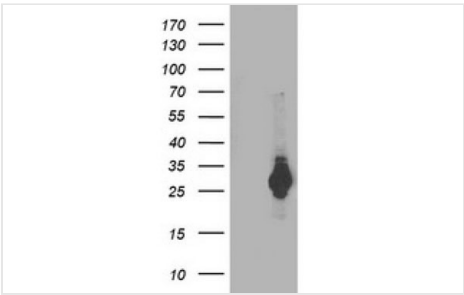
### PRODUCT SYNONYMS

PSMB4; Monoclonal Antibody; PSMB4 antibody; Monoclonal PSMB4; Anti-PSMB4; Proteasome macropain subunit beta type 4; Prosome Macropain Subunit Beta Type 4; HN3; HsN3; PROS26; PSMB 4; PSMB-4; anti-PSMB4 antibody

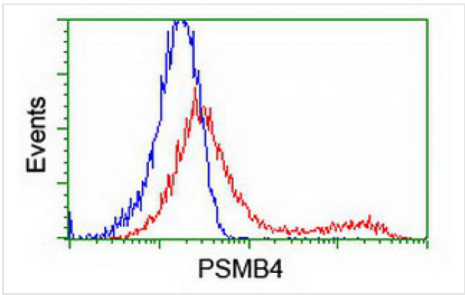
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone Number                                    | 5B5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purity/Purification                             | PSMB4 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration                                   | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                 | 264                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-PSMB4 antibody | WB (Western Blot), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Biological Significance                         | 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. PSMB4 is a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. |
| Cross-Reactivity                                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                       | PSMB4 antibody was raised in mouse using a full length recombinant protein of human PSMB4 (NP_002787) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                         | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

IMAGES



**WB (Western Blot)**  
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant PSMB4 protein (Right) or empty vector (Left) detected with PSMB4 antibody



**FCM/FACS (Flow Cytometry)**  
Flow Cytometric analysis of HEK293T cells transfected with either recombinant PSMB4 protein (red) or empty vector (blue) stained using PSMB4 antibody

ADDITIONAL INFORMATION

|                                                     |                                        |
|-----------------------------------------------------|----------------------------------------|
| Related Product Information for anti-PSMB4 antibody | Mouse monoclonal PSMB4 antibody        |
| Product Categories/Family for anti-PSMB4 antibody   | Protein Modification & Stress Response |

NCBI AND UNIPROT INFORMATION

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI GI #                        | 22538467                                              |
| NCBI GeneID                      | 5692                                                  |
| NCBI Accession #                 | NP_002787.2                                           |
| NCBI GenBank Nucleotide #        | NM_002796.2                                           |
| Molecular Weight                 | 29,204 Da                                             |
| NCBI Official Full Name          | proteasome subunit beta type-4                        |
| NCBI Official Synonym Full Names | proteasome (prosome, macropain) subunit, beta type, 4 |
| NCBI Official Symbol             | PSMB4                                                 |
| NCBI Official Synonym Symbols    | HN3; HsN3; PROS26; PROS-26                            |
| NCBI Protein Information         | proteasome subunit beta type-4                        |
| UniProt Protein Name             | Proteasome subunit beta type-4                        |
| UniProt Gene Name                | <b>PSMB4</b>                                          |
| 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.