

## Rabbit PSMA6 Polyclonal Antibody | anti-PSMA6 antibody

PSMA6 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY           | APPLICATIONS                                           |
|-----------|--------|----------------------|--------------------------------------------------------|
| AAA37238  | Rabbit | Human, Mouse, Monkey | Immunofluorescence, Immunohistochemistry, Western Blot |

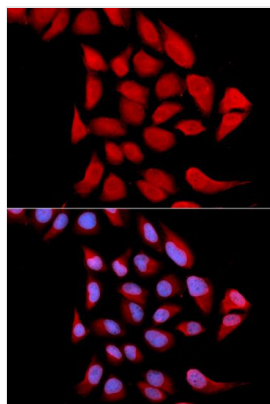
### PRODUCT SYNONYMS

PSMA6; Polyclonal Antibody; PSMA6 Polyclonal Antibody; IOTA; MGC22756; MGC2333; MGC23846; PROS27; p27K; anti-PSMA6 antibody

### PRODUCT SPECIFICATIONS

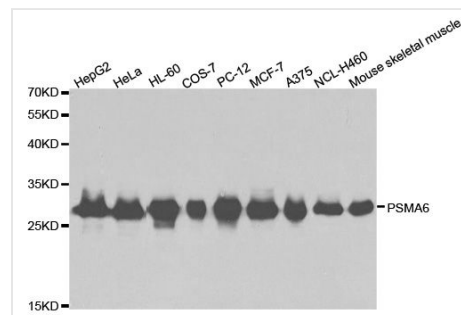
|                                                 |                                                                                                                                                       |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                |
| Reactivity                                      | Human, Mouse, Monkey                                                                                                                                  |
| Clonality                                       | Polyclonal                                                                                                                                            |
| Isotype                                         | IgG                                                                                                                                                   |
| Purity/Purification                             | Affinity Purification                                                                                                                                 |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                 | 246                                                                                                                                                   |
| Applicable Applications for anti-PSMA6 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Species                                         | Human                                                                                                                                                 |
| Immunogen                                       | Recombinant Protein                                                                                                                                   |
| Immunogen                                       | Recombinant protein of human PSMA6                                                                                                                    |
| Calculated Molecular Weight                     | 27kDa                                                                                                                                                 |
| Preparation and Storage                         | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using PSMA6 antibody. Blue: DAPI for nuclear staining.



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using PSMA6 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PSMA6 antibody | The 20S proteasome is the major proteolytic enzyme complex involved in intracellular protein degradation. It consists of four stacked rings, each with seven distinct subunits. The two outer layers are identical rings composed of alpha subunits (called PSMA6s), and the two inner layers are identical rings composed of beta subunits. While the catalytic sites are located on the beta rings (1-3), the alpha subunits are important for assembly and as binding sites for regulatory proteins (4). Seven different alpha and ten different beta proteasome genes have been identified in mammals (5). PA700, PA28, and PA200 are three major protein complexes that function as activators of the 20S proteasome. PA700 binds polyubiquitin with high affinity and associates with the 20S proteasome to form the 26S proteasome, which preferentially degrades poly-ubiquitinated proteins (1-3). The proteasome has a broad substrate spectrum that includes cell cycle regulators, signaling molecules, tumor suppressors, and transcription factors. By controlling the degradation of these intracellular proteins, the proteasome functions in cell cycle regulation, cancer development, immune responses, protein folding, and disease progression (6-9). |
| Product Categories/Family for anti-PSMA6 antibody   | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 46397659                                                                                                                                                                                                                                |
| NCBI GeneID                      | 5687                                                                                                                                                                                                                                    |
| UniProt Accession #              | P60900; P34062; Q6IB60; B2R7J9; B4DQR4; B4DXJ9                                                                                                                                                                                          |
| Molecular Weight                 | 246                                                                                                                                                                                                                                     |
| NCBI Official Full Name          | Proteasome subunit alpha type-6                                                                                                                                                                                                         |
| NCBI Official Synonym Full Names | proteasome (prosome, macropain) subunit, alpha type, 6                                                                                                                                                                                  |
| NCBI Official Symbol             | PSMA6                                                                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | IOTA; p27K; PROS27                                                                                                                                                                                                                      |
| NCBI Protein Information         | proteasome subunit alpha type-6; PROS-27; macropain iota chain; prosomal P27K protein; proteasome iota chain; macropain subunit iota; 27 kDa prosomal protein; proteasome subunit iota; multicatalytic endopeptidase complex iota chain |
| UniProt Protein Name             | Proteasome subunit alpha type-6                                                                                                                                                                                                         |
| UniProt Gene Name                | PSMA6                                                                                                                                                                                                                                   |
| UniProt Synonym Gene Names       | PROS27; PROS-27; p27K                                                                                                                                                                                                                   |
| UniProt Entry Name               | PSA6_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.