

Rabbit PSMA6 Polyclonal Antibody | anti-PSMA6 antibody

PSMA6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326666	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PSMA6; Polyclonal Antibody; PSMA6 Antibody; 27 kDa prosomal protein; IOTA; Macropain iota chain; Macropain subunit iota; MGC22756; MGC2333; MGC23846; Multicatalytic endopeptidase complex iota chain; p27K; PROS 27; PROS-27; PROS27; Prosomal P27K protein; Proteasome (prosome macropain) subunit alpha type 6; Proteasome iota chain; Proteasome subunit alpha type 6; Proteasome subunit alpha type-6; Proteasome subunit iota; PSA6_HUMAN; PSMA 6; anti-PSMA6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMA6 antibody detects endogenous levels of total PSMA6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	167
Applicable Applications for anti-PSMA6 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMA6
Subcellular Location	Cytoplasm. Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326666 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using PSMA6 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMA6 antibody

Description: 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 PSMAs), 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).

Function: Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP-dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin-independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex).

Subunit Structure: The 26S proteasome consists of a 20S proteasome core and two 19S regulatory subunits. The 20S proteasome core is a barrel-shaped complex made of 28 subunits that are arranged in four stacked rings. The two outer rings are each formed by seven alpha subunits, and the two inner rings are formed by seven beta subunits. The proteolytic activity is exerted by three beta-subunits PSMB5, PSMB6 and PSMB7. Interacts with ALKBH4 (PubMed:23145062).

Similarity: Belongs to the peptidase T1A family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	532691770
NCBI GeneID	5687
NCBI Accession #	NP_001269161.1
NCBI GenBank Nucleotide #	NM_001282232.1
UniProt Accession #	P60900; P34062; Q6IB60; B2R7J9; B4DQR4; B4DXJ9
Molecular Weight	Observed: 27 kDa Predicted: 28 kDa
NCBI Official Full Name	proteasome subunit alpha type-6 isoform b
NCBI Official Synonym Full Names	proteasome subunit alpha 6
NCBI Official Symbol	PSMA6
NCBI Official Synonym Symbols	IOTA; p27K; PROS27

NCBI Protein Information	proteasome subunit alpha type-6
UniProt Protein Name	Proteasome subunit alpha type-6
UniProt Gene Name	PSMA6
UniProt Synonym Gene Names	PROS27; PROS-27; p27K

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/psma6-antibody-immunohistochemistry-western-blot-elisa/326666>