Rabbit PSMA6 Polyclonal Antibody | anti-PSMA6 antibody

PSMA6 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA169039	**Rabbit**	**Human, Mouse, Rat**	**Immunofluorescence, Immunohistochemistry, Western Blot**

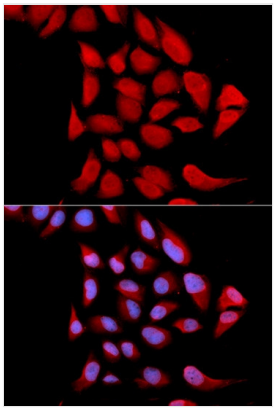
PRODUCT SYNONYMS

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

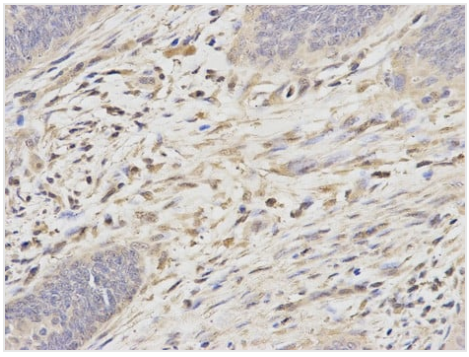
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (varies by lot)
Sequence Length	227
Applicable Applications for anti-PSMA6 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human PSMA6
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-54674 / sc-54724 / sc-67343
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.

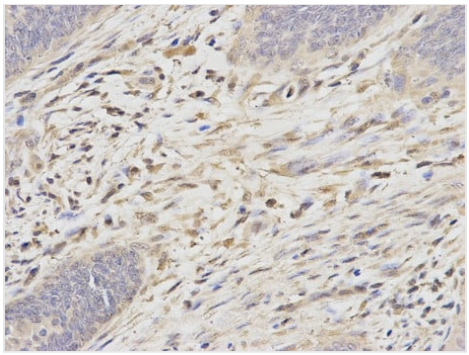
IMAGES



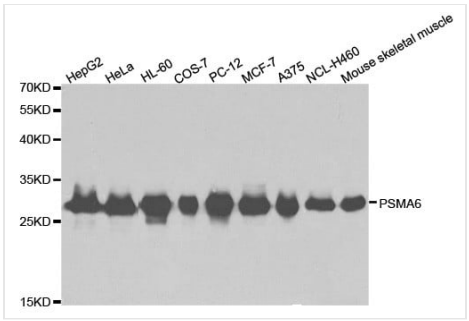
IF (Immunofluorescence)
Immunofluorescence analysis of U2OS cell using PSMA6 antibody. Blue: DAPI for nuclear staining.



IHC (Immunohistochemisry)
Immunohistochemistry of paraffin-embedded human stomach cancer using PSMA6 antibody at dilution of 1:200 (400x lens).



IHC (Immunohiostchemistry)
Immunohistochemistry of paraffin-embedded human rectal cancer using PSMA6 antibody at dilution of 1:200 (400x lens).



WB (Western Blot)
Western blot analysis of extracts of various cell lines, using PSMA6 antibody.

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 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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	532691774
NCBI GeneID	5687
NCBI Accession #	NP_001269163.1
NCBI GenBank Nucleotide #	NM_001282234.1
Molecular Weight	18,816 Da
NCBI Official Full Name	proteasome subunit alpha type-6 isoform c
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; 27 kDa prosomal protein; PROS-27; macropain iota chain; macropain subunit iota; multicatalytic endopeptidase complex iota chain; prosomal P27K protein; proteasome iota chain; proteasome subunit iota
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.