

Rabbit PSMB9 Polyclonal Antibody | anti-PSMB9 antibody

PSMB9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326371	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

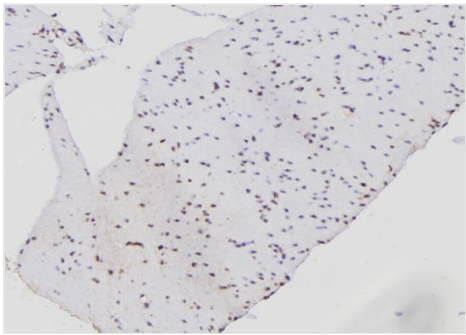
PRODUCT SYNONYMS

PSMB9; Polyclonal Antibody; PSMB9 Antibody; Beta1i; Large multifunctional peptidase 2; Large multifunctional protease 2; LMP 2; LMP2; Low molecular mass protein 2; Macropain chain 7; MGC70470; Multicatalytic endopeptidase complex chain 7; OTTHUMP00000062982; Proteasome (prosome macropain) subunit beta type 9; proteasome (prosome; macropain) subunit; beta type; 9 (large multifunctional peptidase 2); Proteasome beta 9 subunit; Proteasome catalytic subunit 1i; Proteasome chain 7; Proteasome related gene 2; Proteasome subunit beta 6i; Proteasome subunit beta type 9; Proteasome subunit beta type-9; Proteasome subunit beta-1i; PSB9_HUMAN; PSMB 9; PSMB6i; Really interesting new gene 12 protein; RING 12; RING12; RING12 protein; anti-PSMB9 antibody

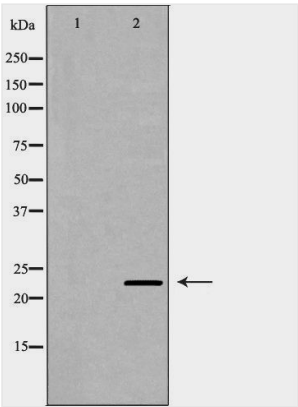
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMB9 antibody detects endogenous levels of total PSMB9
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	219
Applicable Applications for anti-PSMB9 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMB9
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Highly expressed in immature dendritic cells (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (86%), Horse (86%), Sheep (86%), Rabbit (86%), Dog (100%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326371 at 1/100 staining Human gastric 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 K562 cell lysate, using PSMB9 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMB9 antibody	Description: 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. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. [provided by RefSeq, Mar 2010] Subunit Structure: The 26S proteasome consists of a 20S proteasome core and two 19S regulatory subunits. The 20S proteasome core is composed of 28 subunits that are arranged in four stacked rings, resulting in a barrel-shaped structure. The two end rings are each formed by seven alpha subunits, and the two central rings are each formed by seven beta subunits. The catalytic chamber with the active sites is on the inside of the barrel. Component of the immunoproteasome, where it displaces the equivalent housekeeping subunit PSMB6. Component of the spermatoproteasome, a form of the proteasome specifically found in testis. Interacts with HIV-1 TAT protein. Post-translational Modifications: Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the nucleophile proteolytic activity. Similarity: Belongs to the peptidase T1B family.
References	Liu X, Wu XP, Zhu XL, Li T, Liu Y; Journal: Int Immunopharmacol. IRG1 increases MHC class I level in macrophages through STAT-TAP1 axis depending on NADPH oxidase mediated reactive oxygen species.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506205
NCBI GeneID	5698
NCBI Accession #	NP_002791.1
NCBI GenBank Nucleotide #	NM_002800.4
UniProt Accession #	P28065; Q16523; Q5JNW4; B0V0T1
Molecular Weight	Observed: 23 kDa Predicted: 24 kDa
NCBI Official Full Name	proteasome subunit beta type-9
NCBI Official Synonym Full Names	proteasome subunit beta 9
NCBI Official Symbol	PSMB9

NCBI Official Synonym Symbols	LMP2; PRAAS3; PSMB6i; RING12; beta1i
NCBI Protein Information	proteasome subunit beta type-9
UniProt Protein Name	Proteasome subunit beta type-9
UniProt Gene Name	PSMB9
UniProt Synonym Gene Names	LMP2; PSMB6i; RING12

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/psmb9-antibody-immunohistochemistry-western-blot-elisa/326371>