

Rabbit Proteasome 20S LMP7 Polyclonal Antibody | anti-PSMB8 antibody

Proteasome 20S LMP7 Antibody

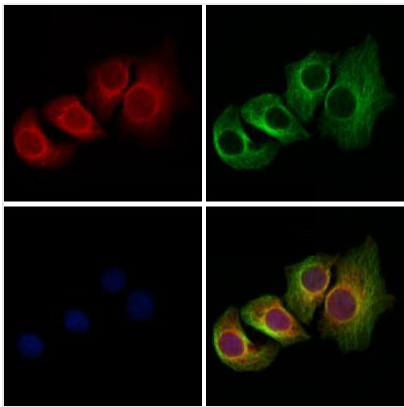
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31177	Rabbit	Human, Mouse, Rat Predicted Reactivity: Horse(86%), Rabbit(100%), Dog(88%)	Western Blot, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

Proteasome 20S LMP7; Polyclonal Antibody; Proteasome 20S LMP7 Antibody; ALDD; D6S216; D6S216E; Large multifunctional peptidase 7; Large multifunctional protease 7; LMP 7; LMP7; Low molecular mass protein 7; Low molecular weight protein 7; Macropain subunit C13; MGC1491; Multicatalytic endopeptidase complex subunit C13; NKJO; OTTHUMP00000062981; Protease component C13; Proteasome (prosome macropain) subunit beta type 8; Proteasome (prosome; macropain) subunit; beta type; 8 (large multifunctional peptidase 7); Proteasome beta 8 subunit; Proteasome catalytic subunit 3i; Proteasome component C13; Proteasome related gene 7; Proteasome subunit beta 5i; Proteasome subunit beta 8; Proteasome subunit beta type 8; Proteasome subunit beta type; Proteasome subunit beta type-8; Proteasome subunit beta-5i; Proteasome subunit Y2; PSB8_HUMAN; PSMB 8; PSMB5i; PSMB8; Really interesting new gene 10 protein; RING 10; RING10; Y2; anti-PSMB8 antibody

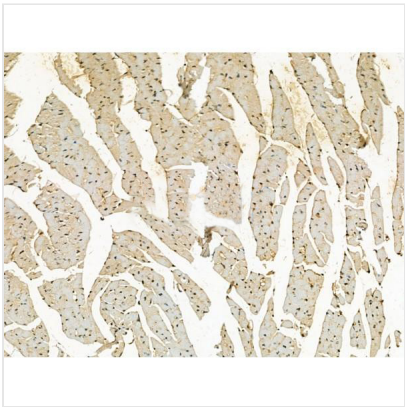
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Horse(86%), Rabbit(100%), Dog(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Proteasome 20S LMP7 Antibody detects endogenous levels of total Proteasome 20S LMP7.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	276
Applicable Applications for anti-PSMB8 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:500-1:2000 IF: 1:100-1:500 ICC: 1:100-1:500 IHC: 1:50-1:200 ELISA(peptide): 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human Proteasome 20S LMP7, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA31177 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA31177 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry-Paraffin)

AAA31177 at 1/100 staining Mouse heart 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



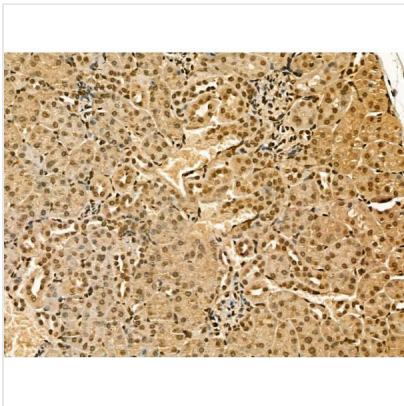
IHC (Immunohistochemistry-Paraffin)

AAA31177 at 1/100 staining Mouse spleen 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31177 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31177 at 1/100 staining Mouse kidney 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry-Paraffin)

AAA31177 at 1/100 staining Mouse brain 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 primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMB8 antibody	Function: The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. This subunit is involved in antigen processing to generate class I binding peptides. Replacement of PSMB5 by PSMB8 increases the capacity of the immunoproteasome to cleave model peptides after hydrophobic and basic residues. Involved in the generation of spliced peptides resulting from the ligation of two separate proteasomal cleavage products that are not contiguous in the parental protein (PubMed:27049119). Acts as a major component of interferon gamma-induced sensitivity. Plays a key role in apoptosis via the degradation of the apoptotic inhibitor MCL1. May be involved in the inflammatory response pathway. In cancer cells, substitution of isoform 1 (E2) by isoform 2 (E1) results in immunoproteasome deficiency. Required for the differentiation of preadipocytes into adipocytes. Post Translational Modifications: Autocleaved. The resulting N-terminal Thr residue of the mature subunit is responsible for the nucleophile proteolytic activity. Subcellular Location: Cytoplasm. Nucleus. 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 PSMB5. Component of the spermatoproteasome, a form of the proteasome specifically found in testis. Directly interacts with POMP. Interacts with TAP1.(Microbial infection) Interacts with HIV-1 TAT protein. Similarity: Belongs to the peptidase T1B family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	334302881
NCBI GeneID	5696
UniProt Accession #	P28062
Molecular Weight	Observed Molecular Weight: (Observed)30kD. Predicted Molecular Weight: (Calculated)30kDa.
NCBI Official Full Name	Proteasome subunit beta type-8
NCBI Official Synonym Full Names	proteasome 20S subunit beta 8
NCBI Official Symbol	PSMB8
NCBI Official Synonym Symbols	JMP; ALDD; LMP7; NKJO; D6S216; PRAAS1; PSMB5i; RING10; D6S216E
NCBI Protein Information	proteasome subunit beta type-8
UniProt Protein Name	Proteasome subunit beta type-8
UniProt Gene Name	PSMB8
UniProt Synonym Gene Names	LMP7; PSMB5i; RING10; Y2
UniProt Entry Name	PSB8_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.