

Rabbit Proteasome Activator Subunit 4 Polyclonal Antibody | anti-PSME4 antibody

Proteasome Activator Subunit 4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329194	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)	ELISA

PRODUCT SYNONYMS

Proteasome Activator Subunit 4; Polyclonal Antibody; Proteasome Activator Subunit 4 Antibody; KIAA0077; PA200; Proteasome Activator 200 kDa; Proteasome activator complex subunit 4; Proteasome activator PA200; PSME 4; psme4; PSME4_HUMAN; anti-PSME4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%), Chicken(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	Proteasome Activator Subunit 4 Antibody detects endogenous levels of total Proteasome Activator Subunit 4.
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	1843
Applicable Applications for anti-PSME4 antibody	ELISA
Immunogen	A synthesized peptide derived from human Proteasome Activator Subunit 4, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



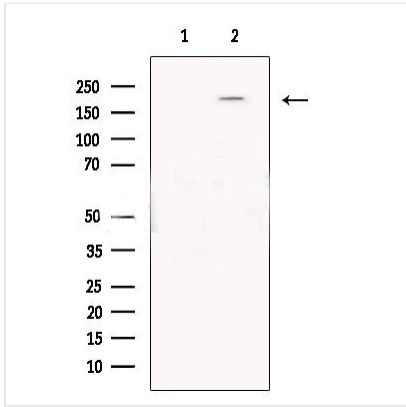
IHC (Immunohistochemisry)

AAA329194 at 1/100 staining Mouse pancreatic 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 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)

AAA329194 at 1/100 staining Rat testis 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 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Hela cells, using Proteasome Activator Subunit 4 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSME4 antibody

Function: Associated component of the proteasome that specifically recognizes acetylated histones and promotes ATP- and ubiquitin-independent degradation of core histones during spermatogenesis and DNA damage response. Recognizes and binds acetylated histones via its bromodomain-like (BRDL) region and activates the proteasome by opening the gated channel for substrate entry. Binds to the core proteasome via its C-terminus, which occupies the same binding sites as the proteasomal ATPases, opening the closed structure of the proteasome via an active gating mechanism. Component of the spermatoproteasome, a form of the proteasome specifically found in testis: binds to acetylated histones and promotes degradation of histones, thereby participating actively to the exchange of histones during spermatogenesis. Also involved in DNA damage response in somatic cells, by promoting degradation of histones following DNA double-strand breaks.

Subcellular Location: Cytoplasm>Cytosol. Nucleus. Nucleus speckle. Note: Found in nuclear foci following treatment with ionizing radiation, but not with ultraviolet irradiation or H(2)O(2).

Subunit Structure: Homodimer. Interacts with the 20S and 26S proteasomes. Component of the spermatoproteasome, a form of the proteasome specifically found in testis.

Similarity: The bromodomain-like (BRDL) region specifically recognizes and binds acetylated histones.Belongs to the BLM10 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	163644283
NCBI GeneID	23198
NCBI Accession #	NP_055429.2
NCBI GenBank Nucleotide #	NP_055429.2
UniProt Accession #	Q14997
Molecular Weight	Observed Molecular Weight: (Observed)211kD. Predicted Molecular Weight: (Calculated)211kDa.
NCBI Official Full Name	proteasome activator complex subunit 4
NCBI Official Synonym Full Names	proteasome activator subunit 4
NCBI Official Symbol	PSME4
NCBI Official Synonym Symbols	PA200
NCBI Protein Information	proteasome activator complex subunit 4
UniProt Protein Name	Proteasome activator complex subunit 4
UniProt Gene Name	PSME4
UniProt Synonym Gene Names	KIAA0077
UniProt Entry Name	PSME4_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/proteasome-activator-subunit-4-antibody-elisa/329194>