

Rabbit PSME2 Polyclonal Antibody | anti-PSME2 antibody

PSME2 Antibody

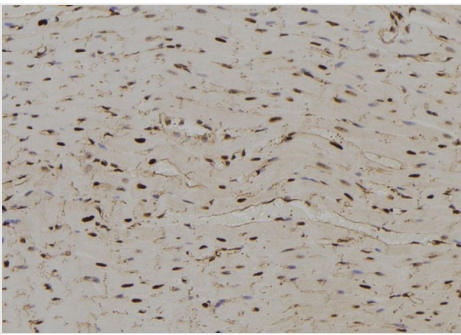
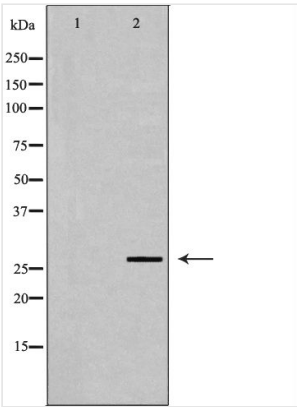
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327103	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PSME2; Polyclonal Antibody; PSME2 Antibody; 11S regulator complex beta subunit; 11S regulator complex subunit beta; Activator of multicatalytic protease subunit 2; Cell migration inducing protein 22; MCP activator 31 kD subunit; PA28 beta; PA28b; PA28beta; Proteasome (prosome macropain) activator subunit 2 (PA28 beta); Proteasome (prosome macropain) activator subunit 2; Proteasome activator 28 beta; Proteasome activator 28 subunit beta; Proteasome activator complex subunit 2; Proteasome activator hPA28 subunit beta; Proteasome activator subunit 2; PSME 2; PSME2_HUMAN; REG beta; REG-beta; REGbeta; anti-PSME2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSME2 antibody detects endogenous levels of total PSME2
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	239
Applicable Applications for anti-PSME2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSME2
Tissue Specificity	By IFNG/IFN-gamma.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA327103 at 1/100 staining Rat 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 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 Hepg2 whole cell lysates, using PSME2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSME2 antibody

Description: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the beta subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three beta and three alpha subunits combine to form a heterohexameric ring. Six pseudogenes have been identified on chromosomes 4, 5, 8, 10 and 13.

Function: Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

Subunit Structure: Heterodimer of PSME1 and PSME2, which forms a hexameric ring.

Similarity: Belongs to the PA28 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	30410792
NCBI GeneID	5721
NCBI Accession #	NP_002809.2
NCBI GenBank Nucleotide #	NM_002818.2
UniProt Accession #	Q9UL46; Q15129
Molecular Weight	Observed: 27 kDa Predicted: 28 kDa
NCBI Official Full Name	proteasome activator complex subunit 2
NCBI Official Synonym Full Names	proteasome activator subunit 2
NCBI Official Symbol	PSME2
NCBI Official Synonym Symbols	PA28B; REGbeta; PA28beta
NCBI Protein Information	proteasome activator complex subunit 2

UniProt Protein Name	Proteasome activator complex subunit 2
UniProt Gene Name	PSME2
UniProt Synonym Gene Names	REG-beta; PA28b; PA28beta

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/psme2-antibody-immunohistochemistry-western-blot-elisa/327103>