

Rabbit PSMC2 Polyclonal Antibody | anti-PSMC2 antibody

PSMC2 Antibody

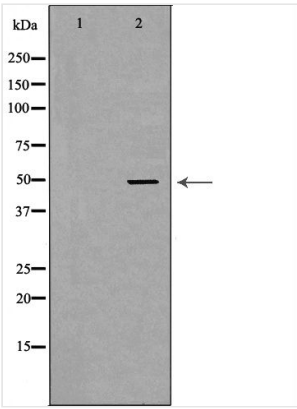
CATALOG # AAA326500	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PSMC2; Polyclonal Antibody; PSMC2 Antibody; 26S protease complex; 26S protease regulatory subunit 7; 26S proteasome AAA-ATPase subunit RPT1; mammalian suppressor of sgV-1 of yeast; MSS1; Nbla10058; protease 26S subunit 7; proteasome 26S ATPase subunit 2; Proteasome 26S subunit ATPase 2; Protein MSS1; PRS7_HUMAN; putative protein product of Nbla10058; S7; anti-PSMC2 antibody

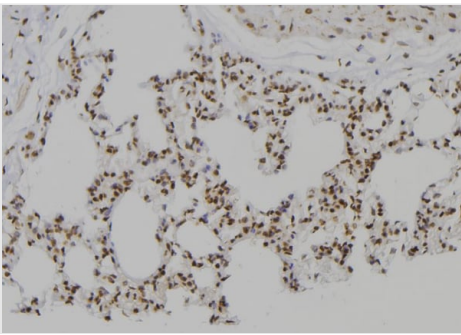
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMC2 antibody detects endogenous levels of total PSMC2
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	141
Applicable Applications for anti-PSMC2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMC2
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Expression is not cell cycle-dependent and occurs throughout the cell cycle.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of Hela whole cell lysates, using PSMC2 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326500 at 1/100 staining Rat 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC2 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. This gene encodes one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit has been shown to interact with several of the basal transcription factors so, in addition to participation in proteasome functions, this subunit may participate in the regulation of transcription. This subunit may also compete with PSMC3 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Function: Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. PSMC2 belongs to the heterohexameric ring of AAA (ATPases associated with diverse cellular activities) proteins that unfolds ubiquitinated target proteins that are concurrently translocated into a proteolytic chamber and degraded into peptides.

Subunit Structure: Component of the 19S proteasome regulatory particle complex. The 26S proteasome consists of a 20S core particle (CP) and two 19S regulatory subunits (RP). The regulatory particle is made of a lid composed of 9 subunits, a base containing 6 ATPases including PSMC2 and few additional components (PubMed:27428775, PubMed:27342858). Interacts with NDC80/HEC; this interaction is detected only during M phase. Interacts and SQSTM1 (PubMed:15340068). Interacts with PAAF1 (PubMed:15831487). Interacts with HIV-1 Tat. Directly interacts with TRIM5 (PubMed:22078707).

Similarity: Belongs to the AAA ATPase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	325053652
NCBI GeneID	5701
NCBI Accession #	NP_001191382.1
NCBI GenBank Nucleotide #	NM_001204453.1
UniProt Accession #	P35998; Q3LIA5; Q9UDI3; A4D0Q1; B7Z5E2
Molecular Weight	Observed: 48 kDa Predicted: 49 kDa

NCBI Official Full Name	26S proteasome regulatory subunit 7 isoform 2
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 2
NCBI Official Symbol	PSMC2
NCBI Official Synonym Symbols	S7; MSS1; Nbla10058
NCBI Protein Information	26S proteasome regulatory subunit 7
UniProt Protein Name	26S proteasome regulatory subunit 7
UniProt Gene Name	PSMC2
UniProt Synonym Gene Names	MSS1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/psmc2-antibody-immunohistochemistry-western-blot-elisa/326500>