

Rabbit PSMC6 Polyclonal Antibody | anti-PSMC6 antibody

PSMC6 Antibody

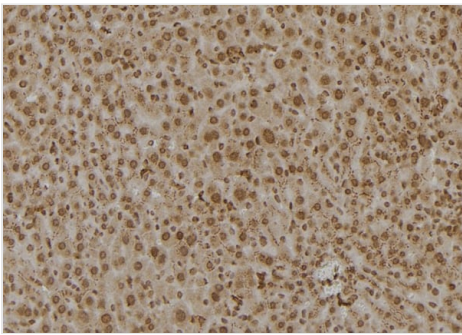
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327013	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PSMC6; Polyclonal Antibody; PSMC6 Antibody; 26S protease regulatory subunit 10B; 26S protease regulatory subunit S10B; 26S proteasome AAA-ATPase subunit RPT4; CADP44; P44; Proteasome 26S subunit ATPase 6; Proteasome subunit p42; PRS10_HUMAN; Rpt4; SUG2; anti-PSMC6 antibody

PRODUCT SPECIFICATIONS

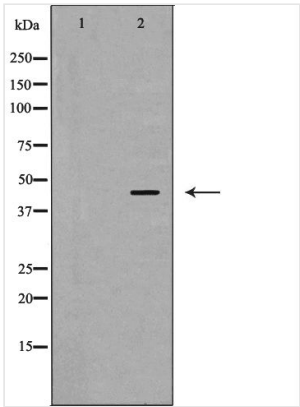
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMC6 antibody detects endogenous levels of total PSMC6
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	403
Applicable Applications for anti-PSMC6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMC6
Subcellular Location	Cytoplasm. Nucleus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA327013 at 1/100 staining Mouse liver 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.



IF (Immunofluorescence)
AAA327013 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of 293T whole cell lysates, using PSMC6 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC6 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. Pseudogenes have been identified on chromosomes 8 and 12.

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. PSMC6 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 PSMC6 and few additional components (PubMed:27428775, PubMed:27342858). Interacts with PAAF1 (PubMed:15831487).

Similarity: Belongs to the AAA ATPase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	195539395
NCBI GeneID	5706
NCBI Accession #	NP_002797.3
NCBI GenBank Nucleotide #	NM_002806.3
UniProt Accession #	P62333; P49719; Q6IBU3; Q92524; B2R975
Molecular Weight	Observed: 44 kDa Predicted: 45 kDa
NCBI Official Full Name	26S proteasome regulatory subunit 10B
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 6
NCBI Official Symbol	PSMC6
NCBI Official Synonym Symbols	p42; SUG2
NCBI Protein Information	26S proteasome regulatory subunit 10B
UniProt Protein Name	26S proteasome regulatory subunit 10B
UniProt Gene Name	PSMC6
UniProt Synonym Gene Names	SUG2

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/psmc6-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/327013>