

Rabbit PSMC5 Polyclonal Antibody | anti-PSMC5 antibody

PSMC5 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326214	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

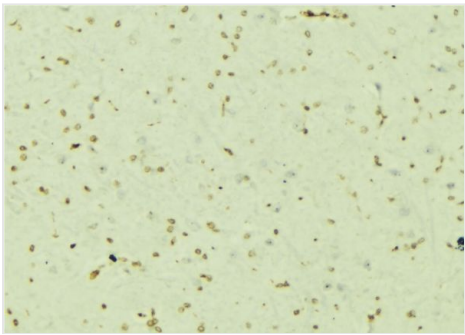
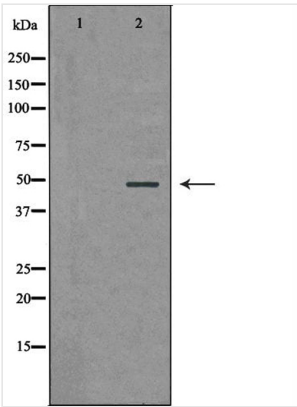
PRODUCT SYNONYMS

PSMC5; Polyclonal Antibody; PSMC5 Antibody; 26S protease regulatory subunit 8; 26S proteasome AAA-ATPase subunit RPT6; Cim3; MSUG1 protein; p45; p45/SUG; Proteasome 26S ATPase subunit 5; Proteasome 26S subunit ATPase 5; Proteasome prosome macropain 26S subunit ATPase 5; Proteasome subunit p45; PRS8_HUMAN; Rpt6; S8; SUG1; Tat binding protein homolog 10; TBP10; Thyroid hormone receptor interacting protein 1; Thyroid hormone receptor-interacting protein 1; Thyroid receptor interactor 1; TRIP1; TRIP1(SUG1); anti-PSMC5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMC5 antibody detects endogenous levels of total PSMC5
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	398
Applicable Applications for anti-PSMC5 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMC5
Subcellular Location	Cytoplasm. Nucleus.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326214 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 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 extracts of HepG2, using PSMC5 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC5 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. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

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. PSMC5 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 PSMC5 and few additional components (PubMed:27428775, PubMed:27342858). Component of a complex with USP49 and RUVBL1 (PubMed:23824326). Interacts with PRPF19. Interacts with TRIM5 (PubMed:22078707). Interacts with NDC80 (PubMed:9295362, PubMed:10409732). Interacts with PAAF1 (PubMed:15831487). Interacts, in vitro, with the thyroid hormone receptor (in a thyroid hormone T3-dependent manner) and with retinoid X receptor (RXR).

Similarity: Belongs to the AAA ATPase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	312596881
NCBI GeneID	5705
NCBI Accession #	NP_001186092.1
NCBI GenBank Nucleotide #	NM_001199163.1
UniProt Accession #	P62195; O35051; O43208; P47210; P52915; P52916; A8K3Z3; A8K763
Molecular Weight	Observed: 46 kDa Predicted: 46 kDa

NCBI Official Full Name	26S proteasome regulatory subunit 8 isoform 2
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 5
NCBI Official Symbol	PSMC5
NCBI Official Synonym Symbols	S8; p45; SUG1; SUG-1; TBP10; TRIP1; p45/SUG
NCBI Protein Information	26S proteasome regulatory subunit 8
UniProt Protein Name	26S proteasome regulatory subunit 8
UniProt Gene Name	PSMC5
UniProt Synonym Gene Names	SUG1; TRIP1

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/psmc5-antibody-immunohistochemistry-western-blot-elisa/326214>