

Rabbit PSMC4 Polyclonal Antibody | anti-PSMC4 antibody

PSMC4 Antibody

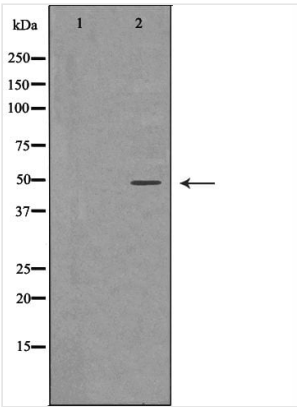
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326722	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PSMC4; Polyclonal Antibody; PSMC4 Antibody; 26S protease regulatory subunit 6B; 26S proteasome AAA ATPase subunit RPT3; 26S proteasome AAA-ATPase subunit RPT3; MB67 interacting protein; MB67-interacting protein; MIP224; Protease 26S subunit 6; Proteasome (prosome macropain) 26S subunit ATPase 4; Proteasome 19S S6; Proteasome 26S subunit ATPase 4; Proteasome 26S subunit; ATPase; 4; PRS6B_HUMAN; RPT3; S6; Tat binding protein 7; TAT-binding protein 7; TBP 7; TBP-7; anti-PSMC4 antibody

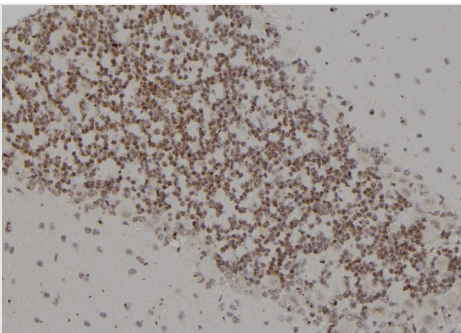
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMC4 antibody detects endogenous levels of total PSMC4
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	418
Applicable Applications for anti-PSMC4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMC4
Subcellular Location	Cytoplasm. Nucleus.
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 (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 PSMC4 Antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326722 at 1/100 staining Rat 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.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMC4 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. This gene encodes a member of the triple-A family of ATPases that is a component of the 19S regulatory subunit and plays a role in 26S proteasome assembly. The encoded protein interacts with gankyrin, a liver oncoprotein, and may also play a role in Parkinson's disease through interactions with synphilin-1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

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. PSMC4 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 PSMC4 and few additional components (PubMed:27428775, PubMed:27342858). Interacts with NR1I3. Interacts with PAAF1 (PubMed:15831487). Interacts with TRIM5 (PubMed:22078707).

Similarity: Belongs to the AAA ATPase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5729991
NCBI GeneID	5704
NCBI Accession #	NP_006494.1
NCBI GenBank Nucleotide #	NM_006503.3
UniProt Accession #	P43686; Q96FV5; Q9UBM3; Q9UEX3
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	26S proteasome regulatory subunit 6B isoform 1
NCBI Official Synonym Full Names	proteasome 26S subunit, ATPase 4

NCBI Official Symbol	PSMC4
NCBI Official Synonym Symbols	S6; RPT3; TBP7; TBP-7; MIP224
NCBI Protein Information	26S proteasome regulatory subunit 6B
UniProt Protein Name	26S proteasome regulatory subunit 6B
UniProt Gene Name	PSMC4
UniProt Synonym Gene Names	MIP224; TBP7; TBP-7

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/psmc4-antibody-immunohistochemistry-western-blot-elisa/326722>