

Rabbit PSMD4 Polyclonal Antibody | anti-PSMD4 antibody

PSMD4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325987	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

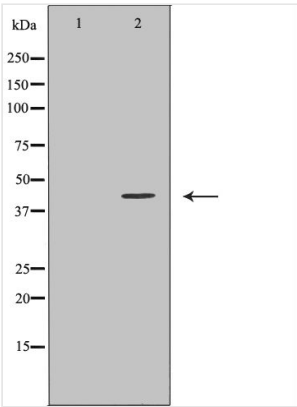
PRODUCT SYNONYMS

PSMD4; Polyclonal Antibody; PSMD4 Antibody; 26S protease subunit S5a; 26S proteasome non ATPase regulatory subunit 4; 26S proteasome non-ATPase regulatory subunit 4; 26S proteasome regulatory subunit rpn10; 26S proteasome regulatory subunit S5A; AF 1; AF; AF1; Angiocidin; Antisecretory factor 1; ASF; DS5a; MCB 1; MCB1; Multiubiquitin chain binding protein; Multiubiquitin chain-binding protein; OTTHUMP00000059963; Prosome macropain; Proteasome (prosome macropain) 26S subunit non ATPase 4; Proteasome 26S non ATPase subunit 4; Proteasome 26S subunit non ATPase 4; PSMD 4; Psmd4; PSMD4_HUMAN; pUB R5; pUBR5; Rpn 10; Rpn10; RPN10 homolog; S5A; S5a/antisecretory factor protein; anti-PSMD4 antibody

PRODUCT SPECIFICATIONS

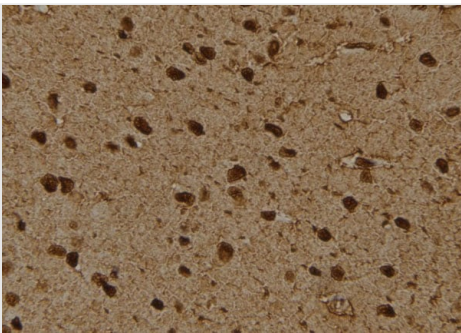
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMD4 antibody detects endogenous levels of total PSMD4
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	377
Applicable Applications for anti-PSMD4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMD4
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (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.

IMAGES



WB (Western Blot)

Western blot analysis of K562 using PSMD4 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325987 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-PSMD4 antibody

Description: S5a (PSMD4) is a subunit of the 19S regulatory proteasome complex functioning in ubiquitinated-protein targeting and degradation (1). S5a contains two polyubiquitin binding motifs (UIM) that bind multiubiquitin chains by hydrophobic interaction (2, 3). In addition to ubiquitin, the UIM of S5a shows high affinity to a ubiquitin-like domain present in many proteins. S5a binds to these types of proteins directly and mediates their targeting to the proteasome for degradation (4, 5).

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. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin-interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.

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 and few additional components including PSMD4 (PubMed:27428775, PubMed:27342858). Interacts with NUB1 (PubMed:11585840). Interacts with SQSTM1 (PubMed:15340068). Interacts with UBQLN4 (PubMed:15280365). Interacts with UBE3A (PubMed:22645313). Interacts with UBQLN1 (via ubiquitin-like domain) (PubMed:15147878).

Similarity: The 2 UIM motifs are involved in the binding to a multi-ubiquitin chain in a cooperative way. Belongs to the proteasome subunit S5A family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5292161
NCBI GeneID	5710
NCBI Accession #	NP_002801.1
NCBI GenBank Nucleotide #	NM_002810.2
UniProt Accession #	P55036; Q5VWC5; Q9NS92; D3DV16
Molecular Weight	Observed: 41 kDa Predicted: 41 kDa
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 4 isoform 2
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 4
NCBI Official Symbol	PSMD4
NCBI Official Synonym Symbols	AF; ASF; S5A; AF-1; MCB1; Rpn10; pUB-R5

NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 4
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 4
UniProt Gene Name	PSMD4
UniProt Synonym Gene Names	MCB1; AF; ASF

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://www.aaabiotech.com/polyclonal/psmd4-antibody-immunohistochemistry-western-blot-elisa/325987>