

Rabbit PSMD2 Polyclonal Antibody | anti-PSMD2 antibody

PSMD2 Antibody

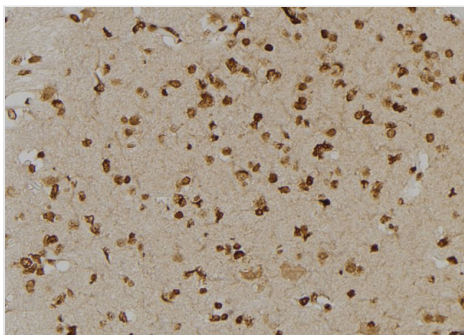
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326507	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

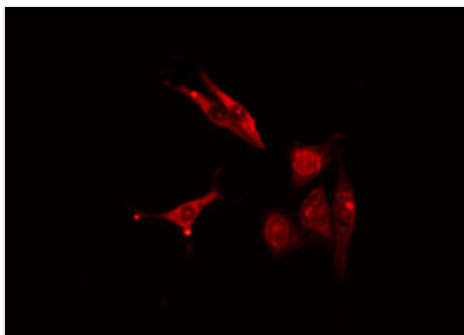
PSMD2; Polyclonal Antibody; PSMD2 Antibody; 26S proteasome non-ATPase regulatory subunit 2; 26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; 55.11 protein; MGC14274; P97; Proteasome (prosome macropain) 26S subunit non ATPase 2; Proteasome 26S subunit; non-ATPase; 2; Proteasome 26S; subunit 2; Protein 55.11; Psmd2; PSMD2_HUMAN; Rpn1; S2; TNFR associated protein 2; TRAP2; Tumor necrosis factor receptor associated protein 2; Tumor necrosis factor type 1 receptor-associated protein 2; anti-PSMD2 antibody

PRODUCT SPECIFICATIONS

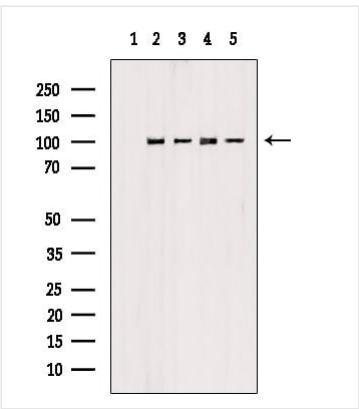
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PSMD2 antibody detects endogenous levels of total PSMD2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	778
Applicable Applications for anti-PSMD2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PSMD2
Tissue Specificity	Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung and placenta.
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 (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



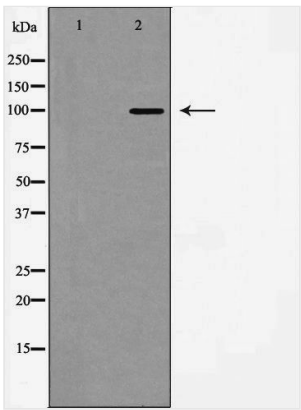
IHC (Immunohistochemistry)
AAA326507 at 1/100 staining Human brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)
AAA326507 staining COLO205 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 extracts from various samples, using PSMD2 Antibody. Lane 1: mouse brain treated with blocking peptide. Lane 2: mouse brain; Lane 3: hela; Lane 4: 293; Lane 5: rat spleen;



WB (Western Blot)
Western blot analysis of HeLa whole cell lysates, using PSMD2 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMD2 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 non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of 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.

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 PSMD2 (PubMed:27428775, PubMed:27342858). Interacts with RPGRIP1L (By similarity).

Similarity: Belongs to the proteasome subunit S2 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	523425734
NCBI GeneID	5708
NCBI Accession #	NP_001265637.1
NCBI GenBank Nucleotide #	NM_001278708.1
UniProt Accession #	Q13200; Q12932; Q15321; Q53XQ4; Q96I12; B4DX07; B4DXY1; E7EW34; E9PCS3
Molecular Weight	Observed: 100 kDa Predicted: 101 kDa
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 2 isoform 2
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 2
NCBI Official Symbol	PSMD2
NCBI Official Synonym Symbols	S2; P97; RPN1; TRAP2
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 2
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 2
UniProt Gene Name	PSMD2
UniProt Synonym Gene Names	TRAP2

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/psmd2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326507>