PSMD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSMD4, Polyclonal Antibody
Full Product Name	PSMD4, CT (26S Proteasome Non-ATPase Regulatory Subunit 4, 26S Proteasome Regulatory Subunit S5A, 26S Proteasome Regulatory Subunit RPN10, Multiubiquitin Chain-binding Protein, Antisecretory Factor 1) (MaxLight 405)
Product Gene Name	anti-PSMD4 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human PSMD4.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	377
OMIM	601648
3D Structure	ModBase 3D Structure for P55036
Immunogen	Synthetic peptide corresponding to a corresponding to a portion of amino acids within aa355-384 at the C-terminal of human PSMD4, conjugated to KLH.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-PSMD4 antibody	Antibodies; Proteasomes
Applications Tested/Suitable for anti-PSMD4 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-PSMD4 antibody	IHC: 1:50-1:100 FLISA: 1:1000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-PSMD4 antibody	MBS6494948 is an antibody targeting PSMD4. Also known as PSMD4, CT (26S Proteasome Non-ATPase Regulatory Subunit 4, 26S Proteasome Regulatory Subunit S5A, 26S Proteasome Regulatory Subunit RPN10, Multiubiquitin Chain-binding Protein, Antisecretory Factor 1) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PSMD4 antibody	1. Walters, K.J., et al., Biochemistry 41(6):1767-1777 (2002). 2. Kawahara, H., et al., EMBO J. 19(15):4144-4153 (2000). 3. Tanahashi, N., et al., J. Biol. Chem. 275(19):14336-14345 (2000). 4. Johansson, E., et al., J. Biol. Chem. 270(35):20615-20620 (1995). 5. Coux, O., et al., Annu. Rev. Biochem. 65, 801-847 (1996).

Other Notes	Small volumes of anti-PSMD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD4. It may not necessarily be applicable to this product.

NCBI GI #	1709796
NCBI GeneID	5710
NCBI Accession #	P55036.1
UniProt Primary Accession #	P55036
UniProt Secondary Accession #	Q5VWC5; Q9NS92; D3DV16
UniProt Related Accession #	P55036
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 4
NCBI Official Synonym Full Names	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
NCBI Official Symbol	PSMD4
NCBI Official Synonym Symbols	AF; ASF; S5A; AF-1; MCB1; Rpn10; pUB-R5
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 4
UniProt Synonym Protein Names	26S proteasome regulatory subunit RPN10; 26S proteasome regulatory subunit S5A; Antisecretory factor 1; AF; ASF; Multiubiquitin chain-binding protein
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD4
UniProt Synonym Gene Names	MCB1; AF; ASF
UniProt Entry Name	PSMD4_HUMAN
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 4; angiocidin; antisecretory factor 1; S5a/antisecretory factor protein; multiubiquitin chain-binding protein; 26S proteasome regulatory subunit S5A
NCBI Summary for PSMD4	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. Pseudogenes have been identified on chromosomes 10 and 21. [provided by RefSeq, Jul 2008]

UniProt Comments for PSMD4	PSMD4: Binds and presumably selects ubiquitin-conjugates for destruction. Displays selectivity for longer polyubiquitin chains. Modulates intestinal fluid secretion. The 26S proteasome is composed of a core protease, known as the 20S proteasome, capped at one or both ends by the 19S regulatory complex (RC). The RC is composed of at least 18 different subunits in two subcomplexes, the base and the lid, which form the portions proximal and distal to the 20S proteolytic core, respectively. Directly interacts with NUB1. Interacts with SQSTM1. Interacts with UBQLN4. Belongs to the proteasome subunit S5A family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Proteasome complex Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: proteasome complex; nucleoplasm; cytoplasm; cytosol Molecular Function: identical protein binding; protein binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; protein polyubiquitination; viral reproduction; apoptosis; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; DNA damage response, signal transduction by p53 class mediator resulting in cell cycle arrest; regulation of apoptosis; antigen processing and presentation of peptide antigen via MHC class I; regulation of ubiquitin-protein ligase activity during mitotic cell cycle; anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I; gene expression; mitotic cell cycle; regulation of amino acid metabolic process; negative regulation of apoptosis; G1/S transition of mitotic cell cycle
Research Articles on PSMD4	**1.** The degradation of TP53 and MDM2 by the proteasome can be selectively dependent on S5a in human cells.
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