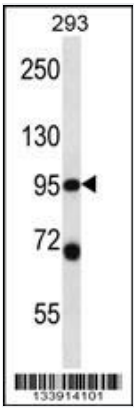
PSMD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSMD2, Polyclonal Antibody
Full Product Name	PSMD2, NT (PSMD2, TRAP2, 26S proteasome non-ATPase regulatory subunit 2, 26S proteasome regulatory subunit RPN1, 26S proteasome regulatory subunit S2, 26S proteasome subunit p97, Protein 55.11, Tumor necrosis factor type 1 receptor-associated protein 2) (
Product Gene Name	anti-PSMD2 antibody
Product Synonym Names	PSMD2; TRAP2; 26S proteasome non-ATPase regulatory subunit 2; 26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; Protein 55.11; Tumor necrosis factor type 1 receptor-associated protein 2
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 R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	100,200 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (184017022..184026840). Location: 3q27.1
OMIM	606223
3D Structure	ModBase 3D Structure for Q13200
Immunogen	PSMD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 5-35 amino acids from the N-terminal region of human PSMD2.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PSMD2 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-PSMD2 antibody	Western Blot (WB), FLISA
Application Notes for anti-PSMD2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-PSMD2 antibody	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.
Product References and Citations for anti-PSMD2 antibody	Ikeda, Y., et al. J. Biol. Chem. 284(50):34889-34900(2009). Smith, L., et al. Neoplasia 11(11):1194-1207(2009). McCauley, J.L., et al. Genes Immun. 10(7):624-630(2009). Djakovic, S.N., et al. J. Biol. Chem. 284(39):26655-26665(2009). Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009).
Other Notes	Small volumes of anti-PSMD2 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.
Searchable Terms for PSMD2 purchase	MBS6338281 is an antibody targeting PSMD2. Also known as PSMD2, NT (PSMD2, TRAP2, 26S proteasome non-ATPase regulatory subunit 2, 26S proteasome regulatory subunit RPN1, 26S proteasome regulatory subunit S2, 26S proteasome subunit p97, Protein 55.11, Tumor necrosis factor type 1 receptor-associated protein 2) (. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PSMD2 antibody
PSMD2 Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the PSMD2 antibody detected the PSMD2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD2. It may not necessarily be applicable to this product.

NCBI GI #	25777602
NCBI GeneID	5708
NCBI Accession #	NP_002799.3
UniProt Primary Accession #	Q13200
UniProt Secondary Accession #	Q12932; Q15321; Q53XQ4; Q96I12
UniProt Related Accession #	Q13200
GenBank Nucleotide #	NM_002808.3
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 2
NCBI Official Synonym Full Names	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
NCBI Official Symbol	PSMD2

NCBI Official Synonym Symbols	S2; P97; Rpn1; TRAP2
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 2
UniProt Synonym Protein Names	26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; Protein 55.11; Tumor necrosis factor type 1 receptor-associated protein 2
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD2
UniProt Synonym Gene Names	TRAP2
UniProt Entry Name	PSMD2_HUMAN
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 2; 55.11 protein; protein 55.11; TNFR-associated protein 2; 26S proteasome subunit p97; 26S proteasome regulatory subunit S2; 26S proteasome regulatory subunit RPN1; tumor necrosis factor receptor-associated pr
UniProt Comments for PSMD2	PSMD2: Acts as a regulatory subunit of the 26 proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins. Belongs to the proteasome subunit S2 family. Protein type: Cell cycle regulation; Proteasome complex Chromosomal Location of Human Ortholog: 3q27.1 Cellular Component: proteasome complex; nucleoplasm; membrane; proteasome regulatory particle; cytosol Molecular Function: protein binding; enzyme regulator activity 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 PSMD2	**1.** Results suggest that PSMD2 may be a good molecular target candidate.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.