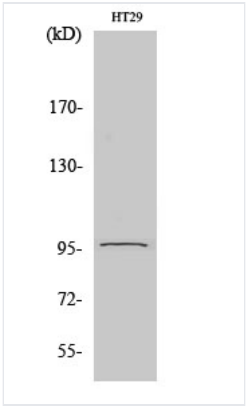
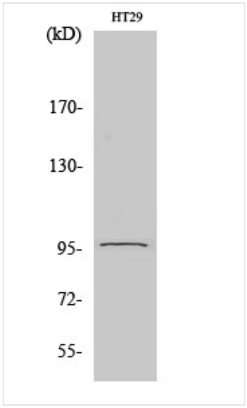
PSMD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSMD2, Polyclonal Antibody
Full Product Name	PSMD2 Polyclonal Antibody
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
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
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
Applications Tested/Suitable for anti-PSMD2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)
Related Product Information for anti-PSMD2 antibody	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.
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	MBS9244976 is an antibody targeting PSMD2. Also known as PSMD2 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-PSMD2 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.



Western Blot (WB) of anti-PSMD2 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

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

NCBI Summary for PSMD2	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. [provided by RefSeq, Jul 2008]
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.
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