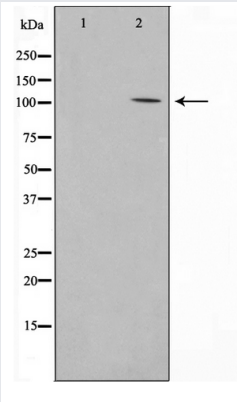
PSMD2 Antibody

PRODUCT OVERVIEW

Product Name	PSMD2, Antibody
Full Product Name	PSMD2 Antibody
Product Gene Name	anti-PSMD2 antibody
Product Synonym Names	26S proteasome non-ATPase regulatory subunit 2; 26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; 55.11 protein; TRAP2; Tumor necrosis factor type 1 receptor-associated protein 2
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	PSMD2 Antibody detects endogenous levels of PSMD2
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	100kDa
OMIM	606223
3D Structure	ModBase 3D Structure for Q13200
Immunogen	A synthesized peptide derived from human PSMD2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PSMD2 antibody	Western Blot (WB)
Application Notes for anti-PSMD2 antibody	WB: 1:500-1:2000
Related Product Information for anti-PSMD2 antibody	PSMD2 acts as a regulatory subunit of the 26 proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins.
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	MBS8511120 is an antibody targeting PSMD2. Also known as PSMD2 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-PSMD2 antibody
Western blot analysis on COLO205 cell lysate using PSMD2 Antibody

ADDITIONAL DETAILS

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

NCBI GI #	523425734
NCBI GeneID	5708
NCBI Accession #	NP_001265637.1
UniProt Primary Accession #	Q13200
UniProt Secondary Accession #	Q12932; Q15321; Q53XQ4; Q96I12; B4DX07; B4DXY1; E7EW34; E9PCS3
UniProt Related Accession #	Q13200
GenBank Nucleotide #	NM_001278708.1
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
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
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 2
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. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013]

UniProt Comments for PSMD2	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.
Research Articles on PSMD2	**1.** the high-resolution solution structure of the UBL domain of human UBLCP1 and its interaction with Rpn1
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