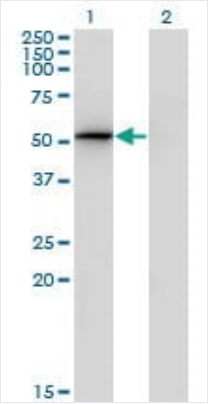
PSMD4 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PSMD4, Monoclonal Antibody
Full Product Name	PSMD4 (26S Proteasome Non-ATPase Regulatory Subunit 4, 26S Proteasome Regulatory Subunit S5A, 26S Proteasome Regulatory Subunit RPN10, Multiubiquitin Chain-binding Protein, Antisecretory Factor 1) (FITC)
Product Gene Name	anti-PSMD4 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3C9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PSMD4.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be r assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to rer cap.
Molecular Weight	28,612 Da
OMIM	601648
3D Structure	ModBase 3D Structure for P55036
Immunogen	Partial recombinant corresponding to aa1-111, from human PSMD4 (NP_002801) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVGLITLANDCEVLTTLTPDTGRILSKLHTVQPKGKITFCTGIRVAHLALKHRQ
Conjugate	FITC
Product Categories/Family for anti-PSMD4 antibody	Antibodies; Proteasomes
Applications Tested/Suitable for anti-PSMD4 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-PSMD4 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-PSMD4 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. 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 1 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. Prote distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSDM4 one of the non-ATPase subun 19S regulator lid.
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 neces 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 may apply.
Searchable Terms for PSMD4 purchase	MBS6149101 is an antibody targeting PSMD4. Also known as PSMD4 (26S Proteasome Non-ATPase Regulatory Subunit 4, 26S Proteasome Regulat S5A, 26S Proteasome Regulatory Subunit RPN10, Multiubiquitin Chain-binding Protein, Antisecretory Factor 1) (FITC). Reactive in Human. Host: Mous



Western Blot (WB) of anti-PSMD4 antibody
Western Blot analysis of PSMD4 expression in transfected 293T cell line by PSMD4 monoclonal antibody. Lane 1: PSMD4 transfected lysate (40.7kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	5292161
NCBI GeneID	5710
NCBI Accession #	NP_002801
UniProt Primary Accession #	P55036
UniProt Secondary Accession #	Q5VWC5; Q9NS92; D3DV16
UniProt Related Accession #	P55036
GenBank Nucleotide #	NM_002810
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; 26S proteasome regulatory subunit S5A; S5a/antisecretory factor protein; angiocidin; antisecretory factor 1; multiubiquitin chain-binding protein
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
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