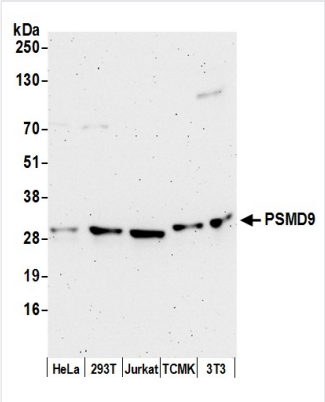
PSMD9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSMD9, Polyclonal Antibody
Full Product Name	Rabbit anti-PSMD9 Antibody, Affinity Purified
Product Gene Name	anti-PSMD9 antibody
Product Synonym Names	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9; proteasome 26S non-ATPase regulatory subunit 9; Rpn4; homolog of rat Bridge 1; 26S proteasome non-ATPase regulatory subunit 9; 26S proteasome regulatory subunit p27; p27; 26S proteasome non-ATPase regulatory subunit 9; proteasome 26S subunit, non-ATPase 9
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
OMIM	603146
3D Structure	ModBase 3D Structure for O00233
Immunogen	Between 50 and 100
Conjugation	Unconjugated
Product Categories/Family for anti-PSMD9 antibody	Primary Antibodies
Applications Tested/Suitable for anti-PSMD9 antibody	Western Blot (WB)
Application Notes for anti-PSMD9 antibody	WB: 1:2000-1:10,000
Related Product Information for anti-PSMD9 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. 26S proteasome non-ATPase regulatory subunit 9 (PSMD9) is a non-ATPase subunit of the 19S regulator [taken from NCBI Entrez Gene (Gene ID: 5715)].
Other Notes	Small volumes of anti-PSMD9 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 PSMD9 purchase	MBS3905133 is an antibody targeting PSMD9. Also known as Rabbit anti-PSMD9 Antibody, Affinity Purified. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-PSMD9 antibody
Detection of human and mouse PSMD9 by western blot. Samples: Whole cell lysate (50 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-PSMD9 antibody MBS3905133 (lot MBS3905133-1) used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD9. It may not necessarily be applicable to this product.

NCBI GI #	18543329
NCBI GeneID	5715
NCBI Accession #	NP_002804.2
UniProt Primary Accession #	O00233
UniProt Related Accession #	O00233
GenBank Nucleotide #	NM_002813.6
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 9 isoform 1
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 9
NCBI Official Symbol	PSMD9
NCBI Official Synonym Symbols	p27; Rpn4
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 9
UniProt Synonym Protein Names	26S proteasome regulatory subunit p27
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD9
UniProt Entry Name	PSMD9_HUMAN
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 9
NCBI Summary for PSMD9	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 a non-ATPase subunit of the 19S regulator. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, May 2012]

UniProt Comments for PSMD9	PSMD9: Acts as a chaperone during the assembly of the 26S proteasome, specifically of the base subcomplex of the PA700/19S regulatory complex (RC). During the base subcomplex assembly is part of an intermediate PSMD9:PSMC6:PSMC3 module, also known as modulator trimer complex; PSMD9 is released during the further base assembly process. Belongs to the proteasome subunit p27 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Proteasome complex; Motility/polarity/chemotaxis; Protease Chromosomal Location of Human Ortholog: 12q24.31-q24.32 Cellular Component: nucleoplasm; proteasome regulatory particle; cytoplasm; cytosol; nucleus Molecular Function: protein binding; transcription coactivator activity; bHLH transcription factor binding Biological Process: positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; ubiquitin-dependent protein catabolic process; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; protein polyubiquitination; viral reproduction; apoptosis; positive regulation of transcription, DNA-dependent; positive regulation of insulin secretion; 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; negative regulation of insulin secretion; 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; G1/S transition of mitotic cell cycle; negative regulation of apoptosis
Research Articles on PSMD9	**1.** Polymorphisms of p21 and p27 jointly contribute to an earlier age at diagnosis of pancreatic cancer.
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.
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