PSMA5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSMA5, Polyclonal Antibody
Full Product Name	PSMA5 Antibody, Biotin conjugated
Product Gene Name	anti-PSMA5 antibody
Product Synonym Names	Proteasome subunit alpha type-5; Macropain zeta chain; Multicatalytic endopeptidase complex zeta chain; Proteasome zeta chain; PSMA5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: PSMA5 (MBS7052333) Biotin Conjugated Antibody: PSMA5 (MBS7052336)
Molecular Weight	20,035 Da
OMIM	X61970 mRNA
3D Structure	ModBase 3D Structure for P28066
Immunogen	Recombinant Human Proteasome subunit alpha type-5 protein (124-180AA)
Conjugation	Biotin
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PSMA5 antibody	ELISA (EIA)
Related Product Information for anti-PSMA5 antibody	The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity.
Other Notes	Small volumes of anti-PSMA5 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 PSMA5 purchase	MBS7052336 is an antibody targeting PSMA5. Also known as PSMA5 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMA5. It may not necessarily be applicable to this product.

NCBI GI #	315138981
NCBI GeneID	5686
NCBI Accession #	NP_001186701.1
UniProt Primary Accession #	P28066
UniProt Secondary Accession #	Q3T1C1; Q6IBF7; B2R8F6; B4E2V4
UniProt Related Accession #	P28066
GenBank Nucleotide #	NM_001199772.1
NCBI Official Full Name	proteasome subunit alpha type-5 isoform 2
NCBI Official Synonym Full Names	proteasome subunit alpha 5
NCBI Official Symbol	PSMA5
NCBI Official Synonym Symbols	PSC5; ZETA
UniProt Protein Name	Proteasome subunit alpha type-5
UniProt Synonym Protein Names	Macropain zeta chain; Multicatalytic endopeptidase complex zeta chain; Proteasome zeta chain
UniProt Gene Name	PSMA5
NCBI Protein Information	proteasome subunit alpha type-5
NCBI Summary for PSMA5	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 member of the peptidase T1A family, that is a 20S core alpha subunit. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]
UniProt Comments for PSMA5	PSMA5: The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity. The 26S proteasome consists of a 20S proteasome core and two 19S regulatory subunits. The 20S proteasome core is composed of 28 subunits that are arranged in four stacked rings, resulting in a barrel-shaped structure. The two end rings are each formed by seven alpha subunits, and the two central rings are each formed by seven beta subunits. The catalytic chamber with the active sites is on the inside of the barrel. PSMA5 interacts directly with the PSMG1-PSMG2 heterodimer which promotes 20S proteasome assembly. Up-regulated in colon cancer cell lines. Up-regulated in fetal Down syndrome (DS) brain. May be the target of the transcriptional activator NFE2L2. Expressed in fetal brain. Belongs to the peptidase T1A family. Protein type: EC 3.4.25.1; Protease; Proteasome complex Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cytoplasm; cytosol; nucleoplasm; nucleus; proteasome complex; proteasome core complex Molecular Function: protein binding Biological Process: anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process; antigen processing and presentation of exogenous peptide antigen via MHC class I, TAP-dependent; MAPKKK cascade; negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle; positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle; proteasomal ubiquitin-dependent protein catabolic process; protein polyubiquitination; regulation of amino acid metabolic process; regulation of mRNA stability; stimulatory C-type lectin receptor signaling pathway; T cell receptor signaling pathway; tumor necrosis factor-mediated signaling pathway; Wnt receptor signaling pathway, planar cell polarity pathway
Research Articles on PSMA5	**1.** Selective upregulation of the ubiquitin-proteasome proteolytic pathway proteins, proteasome zeta chain and isopeptidase T in fetal Down syndrome.

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