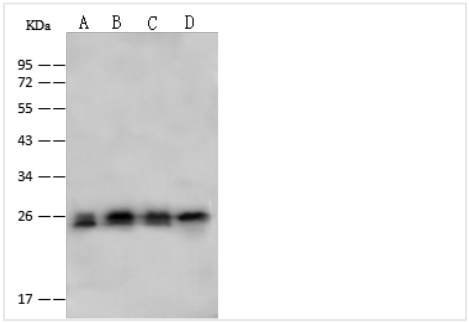
PSMA2 Antibody – Rabbit Polyclonal

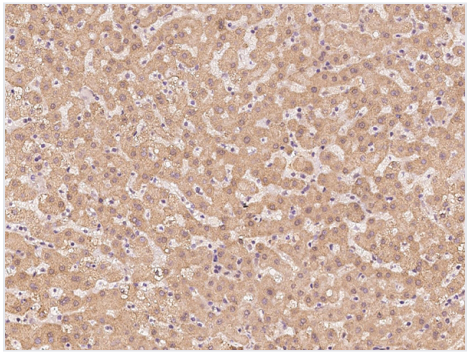
PRODUCT OVERVIEW

Product Name	PSMA2, Polyclonal Antibody
Full Product Name	Anti-PSMA2 Antibody, Rabbit Polyclonal
Product Gene Name	anti-PSMA2 antibody
Product Synonym Names	PSMA2 Antibody, Rabbit PAb, Antigen Affinity Purified; proteasome (prosome, macropain) subunit, alpha type, 2; Anti-HC3 Antibody; Anti-MU Antibody; Anti-PMSA2 Antibody; Anti-PSC2 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human PSMA2
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.
Molecular Weight	234
OMIM	176842
3D Structure	ModBase 3D Structure for P25787
Immunogen	A synthetic peptide corresponding to the center region of the Human PSMA2
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human PSMA2, and purified by antigen affinity chromatography.
Applications Tested/Suitable for anti-PSMA2 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunoprecipitation (IP)
Application Notes for anti-PSMA2 antibody	WB: 1:1000-1:5000 IHC-P: 1:500-1:2000 IP: 5-10uL/mg of lysate
Related Product Information for anti-PSMA2 antibody	PSMA2 (Proteasome 20S Subunit Alpha 2) is a Protein Coding gene. The PSMA2 gene, located on 7p14.1, is conserved in chimpanzee, Rhesus monkey, dog, cow, mouse, and rat, etc. The proteasome is a multi-catalytic proteinase complex with a highly ordered ring-shaped 20S core structure. This PSMA2 gene encodes a member of the peptidase T1A family, which is a 20S core alpha subunit. PSMA2 is widely expressed in the liver, fat, and other tissues. Diseases associated with PSMA2 include Cystic Fibrosis. The related pathways of PSMA2 are Regulation of activated PAK-2p34 by proteasome-mediated degradation and Antigen processing-Cross presentation. 233 organisms have orthologs with the human gene PSMA2.
Product References and Citations for anti-PSMA2 antibody	Knuehl C, et al. (1996) Functional analysis of eukaryotic 20s proteasome nuclear localization signal. Exp Cell Res 225 (1): 67-74.Chen YX, et al. (2009) [expression of genes psma6 and slc25a4 in patients with acute monocytic leukemia]. Zhongguo Shi Yan Xue Ye Xue Za Zhi 17 (5): 1168-1173.Alvarez-Castelao B, et al. (2005) Mechanism of direct degradation of ikappabalpha by 20s proteasome. FEBS Lett 579 (21): 4797-4802.

Other Notes	Small volumes of anti-PSMA2 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 PSMA2 purchase	MBS8104023 is an antibody targeting PSMA2. Also known as Anti-PSMA2 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PSMA2 antibody
Anti-PSMA2 rabbit polyclonal antibody at 1:500 dilution Lane A: H1299 Whole Cell Lysate Lane B: HepG2 Whole Cell Lysate Lane C: 293T Whole Cell Lysate Lane D: Jurkat Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size:25 kDa Observed band size:25 kDa



Immunohistochemistry (IHC) of anti-PSMA2 antibody
Immunochemical staining of human PSMA2 in human liver with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



Immunoprecipitation (IP) of anti-PSMA2 antibody
Galectin3 was immunoprecipitated using: Lane A:0.5 mg A431 Whole Cell Lysate 4 uL anti-Galectin3 rabbit monoclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-Galectin3 rabbit monoclonal antibody,at 1:100 dilution Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 26 kDa Observed band size :30 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMA2. It may not necessarily be applicable to this product.

NCBI GI #	130850
NCBI GeneID	5683
NCBI Accession #	P25787.2
UniProt Primary Accession #	P25787
UniProt Secondary Accession #	Q6ICS6; Q9BU45
UniProt Related Accession #	P25787
NCBI Official Full Name	Proteasome subunit alpha type-2
NCBI Official Synonym Full Names	proteasome (prosome, macropain) subunit, alpha type, 2

NCBI Official Symbol	PSMA2
NCBI Official Synonym Symbols	MU; HC3; PSC2; PMSA2
UniProt Protein Name	Proteasome subunit alpha type-2
UniProt Synonym Protein Names	Macropain subunit C3; Multicatalytic endopeptidase complex subunit C3; Proteasome component C3
Protein Family	Phenol-soluble modulin alpha 2 peptide
UniProt Gene Name	PSMA2
UniProt Synonym Gene Names	HC3; PSC3
UniProt Entry Name	PSA2_HUMAN
NCBI Protein Information	proteasome subunit alpha type-2; macropain subunit C3; proteasome subunit HC3; proteasome component C3; multicatalytic endopeptidase complex subunit C3
NCBI Summary for PSMA2	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. [provided by RefSeq, Jul 2008]
UniProt Comments for PSMA2	PSMA2: a proteasomal protein of the T1A peptidase family. 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 component C3 may have a potential regulatory effect on another component(s) of the proteasome complex through tyrosine phosphorylation. Protein type: EC 3.4.25.1; Proteasome complex; Protease Chromosomal Location of Human Ortholog: 7p13 Cellular Component: nucleoplasm; proteasome complex; proteasome core complex; cytosol; nucleus Molecular Function: threonine endopeptidase activity; 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; response to virus; 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 PSMA2	**1.** The expression level of psma6 in AML-M5 patients with complete remission was higher than that in AML-M5 patients without remission.
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