Large Multifunctional Peptidase 7 (LMP7) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Large Multifunctional Peptidase 7 (LMP7), Polyclonal Antibody
Full Product Name	FITC-Linked Polyclonal Antibody to Large Multifunctional Peptidase 7 (LMP7)
Product Gene Name	anti-LMP7 antibody
Product Synonym Names	PSMB8; RING10; PSMB5i, Beta5i; Proteasome (Prosome, Macropain)Subunit, Beta Type 8; Multicatalytic endopeptidase complex subunit C13; Really interesting new gene 10 protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: LMP7 (MBS2018111) FITC Conjugated Antibody: LMP7 (MBS2056511)
Matching Pairs	FITC Conjugated Antibody: LMP7 (MBS2056511) Immunogen: LMP7 (MBS2018233)
Molecular Weight	29,770 Da
OMIM	X66401 Genomic DNA
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	LMP7 (Thr75~Gly272)
Conjugation	FITC
Cross Reactivity	Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2018111
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-LMP7 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-LMP7 antibody	MBS2056511 is an antibody targeting LMP7. Also known as FITC-Linked Polyclonal Antibody to Large Multifunctional Peptidase 7 (LMP7). Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-LMP7 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LMP7. It may not necessarily be applicable to this product.

NCBI GI #	34637
NCBI GeneID	5696
NCBI Accession #	CAA47026.1

UniProt Secondary Accession #	Q29824; Q5JNW6; Q5QNR8; Q96J48; B0UZC0
UniProt Related Accession #	P28062
NCBI Official Full Name	LMP7
NCBI Official Synonym Full Names	proteasome subunit beta 8
NCBI Official Symbol	PSMB8
NCBI Official Synonym Symbols	JMP; ALDD; LMP7; NKJO; D6S216; PSMB5i; RING10; D6S216E
UniProt Protein Name	Proteasome subunit beta type-8
UniProt Synonym Protein Names	Low molecular mass protein 7; Macropain subunit C13; Multicatalytic endopeptidase complex subunit C13; Proteasome component C13; Proteasome subunit beta-5i; Really interesting new gene 10 protein
UniProt Gene Name	PSMB8
UniProt Synonym Gene Names	LMP7; PSMB5i; RING10; Y2
NCBI Protein Information	proteasome subunit beta type-8
NCBI Summary for LMP7	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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq, Jul 2008]
UniProt Comments for LMP7	PSMB8: a proteasomal protein of the T1B 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. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternatively spliced isoforms have been identified; both isoforms are processed to yield the same mature subunit. Protein type: EC 3.4.25.1; Protease; Proteasome complex Chromosomal Location of Human Ortholog: 6p21.32 Cellular Component: cytosol; nucleoplasm; 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; fat cell differentiation; 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 endopeptidase activity; 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 Disease: Autoinflammation, Lipodystrophy, And Dermatosis Syndrome
Research Articles on LMP7	**1.** We described a Brazilian patient with CANDLE syndrome possessing a novel mutation in the PSMB8 gene.

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