PSMD10 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	PSMD10, Blocking Peptide
Full Product Name	PSMD10 Antibody (C-term) Blocking Peptide
Product Gene Name	PSMD10 blocking peptide
Product Synonym Names	26S proteasome non-ATPase regulatory subunit 10; 26S proteasome regulatory subunit p28; Gankyrin; p28(GANK); PSMD10
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PSMD10 peptide (MBS9220918) is used for blocking the activity of PSMD10 antibody (MBS9212342)
Molecular Weight	16,137 Da
OMIM	300880
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Tends to be up-regulated in cancer cells with RAS mutations, including lung cancers and adenocarconimas (at protein level).
Related Product Information for PSMD10 blocking peptide	Acts as a chaperone during the assembly of the 26S proteasome, specifically of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD10:PSMC4:PSMC5:PAAF1 module which probably assembles with a PSMD5:PSMC2:PSMC1:PSMD2 module. Independently of the proteasome, regulates EGF-induced AKT activation through inhibition of the RHOA/ROCK/PTEN pahway, leading to prolonged AKT activation. Plays an important role in RAS-induced tumorigenesis.
Other Notes	Small volumes of PSMD10 blocking peptide 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 PSMD10 purchase	MBS9220918 is a blocking peptide targeting PSMD10. Also known as PSMD10 Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMD10. It may not necessarily be applicable to this product.

NCBI GI #	20532206
NCBI GeneID	5716
NCBI Accession #	O75832.1
UniProt Primary Accession #	O75832
UniProt Secondary Accession #	Q5U0B2; Q8IZK9
UniProt Related Accession #	O75832
NCBI Official Full Name	26S proteasome non-ATPase regulatory subunit 10
NCBI Official Synonym Full Names	proteasome 26S subunit, non-ATPase 10
NCBI Official Symbol	PSMD10

NCBI Official Synonym Symbols	p28; p28(GANK); dJ889N15.2
UniProt Protein Name	26S proteasome non-ATPase regulatory subunit 10
UniProt Synonym Protein Names	26S proteasome regulatory subunit p28; Gankyrin; p28(GANK)
Protein Family	26S proteasome non-ATPase regulatory
UniProt Gene Name	PSMD10
UniProt Entry Name	PSD10_HUMAN
NCBI Protein Information	26S proteasome non-ATPase regulatory subunit 10
NCBI Summary for PSMD10	This gene encodes a subunit of the PA700/19S complex, which is the regulatory component of the 26S proteasome. The 26S proteosome complex is required for ubiquitin-dependent protein degradation. This protein is a non-ATPase subunit that may be involved in protein-protein interactions. Aberrant expression of this gene may paly a role in tumorigenesis. Two transcripts encoding different isoforms have been described. Pseudogenes have been identified on chromosomes 3 and 20.[provided by RefSeq, Mar 2011]
Research Articles on PSMD10	**1.** p28GANK expression was increased in metastatic ESCC tissues and cells, and p28GANK knockdown decreased the metastatic ability of ESCC cells.
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