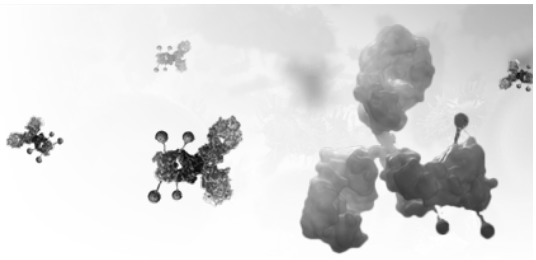

Human PSME1 blocking peptide (CDBP2419)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-PSME1 (isoform 1) antibody
Antigen Description	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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been identified. This gene encodes the alpha subunit of the 11S regulator, one of the two 11S subunits that is induced by gamma-interferon. Three alpha and three beta subunits combine to form a heterohexameric ring. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

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Gene Name	PSME1 proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) [Homo sapiens]
Official Symbol	PSME1
Synonyms	PSME1; proteasome (prosome, macropain) activator subunit 1 (PA28 alpha); proteasome activator complex subunit 1; IFI5111; PA28alpha; REG-alpha; IGUP I-5111; 29-kD MCP activator subunit; interferon-gamma IEF SSP 5111; proteasome activator subunit-1; 11S regulator complex alpha subunit; 11S regulator complex subunit alpha; proteasome activator 28 subunit alpha; interferon-gamma-inducible protein 5111; interferon gamma up-regulated I-5111 protein; activator of multicatalytic protease subunit 1; PA28A; REGalpha; MGC8628;
Entrez Gene ID	5720
mRNA Refseq	NM_006263
Protein Refseq	NP_006254
UniProt ID	Q06323
Chromosome Location	14q11.2
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; Activation of NF-kapp

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