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PSME1 Rabbit pAb

Catalog # AP98788

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q06323
Other Accession	Q06323
Reactivity	Rat, Mouse
Predicted	Pig, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28723
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PSME1
Epitope Specificity	181-249/249
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PA28 family.
SUBUNIT	Heterodimer of PSME1 and PSME2, which forms a hexameric ring. PSME1 can form homoheptamers.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	5720
Other Names	HEL-S-129m; IFI5111; PA28A; PA28alpha; REGalpha; PSME1_BOVIN; PSME1; Proteasome activator 28 subunit alpha (PA28a | PA28alpha); PSME1_HUMAN;

	11S regulator complex subunit alpha (REG-alpha); Activator of multicatalytic protease subunit 1; Interferon gamma up-regulated I-5111 protein (IGUP I-5111); PSME1_MOUSE; PSME1_PIG; PSME1_RAT; proteasome activator subunit 1; proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PSME1
Synonyms	IFI5111
Function	Implicated in immunoproteasome assembly and required for efficient antigen processing. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.