10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PSMB11 Rabbit pAb

Catalog # AP97058

Product Information

Application	WB
Primary Accession	A5LHX3
Other Accession	A5LHX3
Reactivity	Human
Predicted	Rat, Pig, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32530
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PSMB11
Epitope Specificity	161-260/300
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 peptidase T1B family.
SUBUNIT	The 26S proteasome consists of a 20S proteasome core and two 19S regulatory subunits. The 20S proteasome core is composed of 28 subunits that are arranged in four stacked rings, resulting in a barrel-shaped structure. The two end rings are each formed by seven alpha subunits, and the two central rings are each formed by seven beta subunits. The catalytic chamber with the active sites is on the inside of the barrel. Incorporated instead of PSMB5 and PSMB8.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Proteasomes generate peptides that are presented by major histocompatibility complex (MHC) I molecules to other cells of the immune system. Proteolysis is conducted by 20S proteasomes, complexes of 28 subunits arranged as a cylinder in 4 heteroheptameric rings: alpha-1 to -7, beta-1 to -7, beta-1 to -7, and alpha-1 to -7. The catalytic subunits are beta-1 (PSMB6; MIM 600307), beta-2 (PSMB7; MIM 604030), and beta-5 (PSMB5; MIM 600306). Three additional subunits, beta-1i (PSMB9; MIM 177045), beta-2i (PSMB10; MIM 176847), and beta-5i (PSMB8; MIM 177046), are induced by gamma-interferon (IFNG; MIM 147570) and are preferentially incorporated into proteasomes to make immunoproteasomes. PSMB11, or beta-5t, is a catalytic subunit expressed exclusively in cortical thymic epithelial cells (Murata et al., 2007 [PubMed 17540904]).[supplied by OMIM, Mar 2008]

Additional Information

Gene ID	122706
Other Names	BETA5T; PSB11_HUMAN; PSMB11; Proteasome subunit beta-5t; 3.4.25.1; proteasome subunit beta 11; proteasome (prosome, macropain) subunit, beta

	type, 11
Dilution	WB=1:500-2000
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	PSMB11
Function	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. Incorporated instead of PSMB5 or PSMB8, this unit reduces the chymotrypsin-like activity of the proteasome (By similarity). Plays a pivotal role in development of CD8-positive T cells (By similarity).
Cellular Location	Cytoplasm {ECO:0000255|PROSITE-ProRule:PRU00809}. Nucleus

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