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PSMD11 Recombinant Mouse mAb

Catalog # AP97140

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O00231
Other Accession	O00231
Reactivity	Rat, Human, Mouse
Host	Mouse
Clonality	Recombinant
Calculated MW	47464
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PSMD11
Epitope Specificity	250-350/422
Isotype	IgG3/Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the proteasome subunit S9 family. Contains 1 PCI domain.
Post-translational modifications	Phosphorylated by AMPK.
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. This gene encodes a member of the proteasome subunit S9 family that functions as a non-ATPase subunit of the 19S regulator and is phosphorylated by AMP-activated protein kinase. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Jul 2012]

Additional Information

Gene ID	5717
Other Names	Rpn6; S9; p44.5; 1700089D09Rik; 1810019E17Rik; 2610024G20Rik; 2810055C24Rik; psmd11; wu:fb55b06; zgc:56580; zgc:77763; PSD11_BOVIN; 26S proteasome regulatory subunit RPN6; PSD11_HUMAN; 26S proteasome regulatory subunit S9; 26S proteasome regulatory subunit p44.5; PSD11_MOUSE; PSD11_RAT; proteasome 26S subunit, non-ATPase 11; proteasome (prosome, macropain) 26S subunit, non-ATPase, 11; 26S proteasome regulatory subuni

Dilution	WB=1:500-2000,IF=1:50-200,ELISA=1:1000-5000,IHC-P=1:50-200,IHC-F=1:50-200
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	PSMD11
Function	Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. In the complex, PSMD11 is required for proteasome assembly. Plays a key role in increased proteasome activity in embryonic stem cells (ESCs): its high expression in ESCs promotes enhanced assembly of the 26S proteasome, followed by higher proteasome activity.
Cellular Location	Nucleus. Cytoplasm, cytosol
Tissue Location	Highly expressed in embryonic stem cells (ESCs). Expression decreases as ESCs differentiate

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