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PSMD4 Recombinant Rabbit mAb

Catalog # AP98653

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	P55036
Other Accession	P55036
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	40737
Physical State	Liquid
Immunogen	A synthesized peptide derived from human PSMD4
Epitope Specificity	310-377/377
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the proteasome subunit S5A family. Contains 2 UIM (ubiquitin-interacting motif) repeats. Contains 1 VWFA domain.
SUBUNIT	The 26S proteasome is composed of a core protease, known as the 20S proteasome, capped at one or both ends by the 19S regulatory complex (RC). The RC is composed of at least 18 different subunits in two subcomplexes, the base and the lid, which form the portions proximal and distal to the 20S proteolytic core, respectively. Directly interacts with NUB1. Interacts with SQSTM1. Interacts with UBQLN4. Interacts with UBE3A.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Binds and presumably selects ubiquitin-conjugates for destruction. Displays selectivity for longer polyubiquitin chains. Modulates intestinal fluid secretion.

Additional Information

Gene ID	5710
Other Names	AF; AF-1; ASF; MCB1; Rpn10; S5A; pUB-R5; Af1; angiocidin; PSMD4_HUMAN; PSMD4; 26S proteasome regulatory subunit RPN10; 26S proteasome regulatory subunit S5A; Antisecretory factor 1 (AF | ASF); Multiubiquitin chain-binding protein; PSMD4_MOUSE; proteasome 26S subunit ubiquitin receptor, non-ATPase 4; proteasome (prosome, macropain) 26S subunit, non-ATPase, 4; proteasome 26S subunit, non-ATPase 4
Dilution	WB=1:500-2000,IP=1:20-50,Flow-Cyt=1 □g/Test,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ICC/IF=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	PSMD4
Synonyms	MCB1
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. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin- interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.

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