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PSMB5 (D1H6B) Rabbit mAb



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 22, 28	Source/Isotype: Rabbit IgG	UniProt ID: #P28074	Entrez-Gene Id: 5693	
Product Usage Information	2	Application Western Blotting			Dilution 1:1000		
Storage				5), 150 mM NaCl, 100 µg not aliquot the antibody.	/ml BSA, 50% glycei	rol and less than	
Specificity/Sensitivity		PSMB5 (D1H6B) Rabbit mAb recognizes endogenous levels of total PSMB5 protein. This antibody reacts with precursor and mature forms of PSMB5. This antibody does not cross-react with PSMB8.					
Source / Purifi	cation	Monoclonal antibody residues near the car		nunizing animals with a suman PSMB5 protein.	synthetic peptide co	orresponding to	
Background		ubiquitinated substra particle (CP) and the 1 consists of two stacke flanked on either side having multiple subu belonging to the AAA function to unfold the unfolded substrate to function in recruitme Other modulators of and activate it (1,2). The core particle perf trypsin-like, and casp. (β5/MB1/X/LMPX/Mac (β1/Y/LMPY/Macropai amino-terminal nucle The catalytic β-subun final step of proteaso involved in antigen pr replaced by three hig (β2i/MECL-1/LMP10) a (4,5). PSMB5 is downr the proteolytic specifi	te proteins. It cons 19S/PA700 regulato 2 heteroheptamer 2 by two heterohept 19S. The base, in pa- (ATPases Associate 2 substrate and ope 5 the catalytic β-sub 10 the catalytic β-sub 11 of ubiquitinated 12 proteasome activity 13 orms three types of 16 ase-like activities, w 16 cropain epsilon cha 16 delta chain) subu- 16 ophile (Ntn) hydrol 16 its are synthesized 16 me biogenesis to e 17 resentation, the cor- hly homologous ind 16 delta chain (\$5i/LM 17 regulated at the proteaso 16 (6-8). PSMB5 is als	It proteolytic complex invisits largely of two sub-co- ry particle (RP) that can de- ic β -rings (β_{1-7}) that cont tameric α -rings (α_{1-7}). The art, is composed of a het ed with diverse cellular A- en the gate formed by the punits. The lid consists of substrates and modifica γ , such as PA28/11S REG, f catalytic activities inside which are provided by the in), PSMB7 (β 2/Z/Macrop units, respectively. These ase family and are chara with amino-terminal pro xpose the catalytic threo onstitutively expressed PS duced β -subunits: PSMB9 P7/RING10), respectively otein level by IFN- γ and ro to one of the predominar roteasome (9).	proplexes, the 20S can cap either end of the ain three catalytic β e RP includes a base erohexameric ring of ctivities) family. The e α-subunits, thus e ubiquitin receptors tion of ubiquitin char can also bind to the e its chamber: chym e constitutively expro- bain chain Z) and PS catalytic subunits b cterized by a single peptides, which are nine residues (3). In MB6, PSMB7, and P O (β1i/LMP2/RING12 to form the immu eplaced by PSMB8 i e immunological pr	atalytic core e CP. The CP B-subunits and are e and a lid, each of ATPase subunits e ATPase subunits exposing the s and DUBs that ain topology (1,2). e end of the 20S CP notrypsin-like, ressed PSMB5 MB6 belong to the -residue active site. e removed at the nimmune cells SMB5 subunits are 2), PSMB10 noproteasome n order to remodel rocessing of	
Background R	eferences	1. Finley, D. (2009) <i>An</i> 2. Lee, M.J. et al. (201 ⁻ 3. Murata, S. et al. (20 4. Boes, B. et al. (1994 5. Cardozo, C. and Ko 6. Akiyama, K. et al. (1 7. Akiyama, K. et al. (1 8. Gaczynska, M. et al 9. Oerlemans, R. et al	1) <i>Mol Cell Proteom</i> 109) <i>Nat Rev Mol Ce</i> 4) <i>J Exp Med</i> 179, 90 hanski, R.A. (1998) 994) <i>Science</i> 265, 1 994) <i>FEBS Lett</i> 343 . (1996) <i>J Biol Chem</i>	nics 10, R110.003871. Il Biol 10, 104-15. Il-9. <i>J Biol Chem</i> 273, 16764-7 231-4. , 85-8. 1 271, 17275-80.	0.		
Species Reacti	vity	Species reactivity is d	etermined by testir	ng in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer			e membrane with diluted with gentle shaking, ove		n 5% w/v nonfat	

Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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