e at -20C	PSMD14 (D18C7) Rabbit mAb		Cell Signaling	
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For Research Lise Only	Not for Use in	Diagnostic Procedures.
FUI RESEAICH USE UNI	y, NUL IUI USE III	Diagnostic Frocedures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 34	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O00487	Entrez-Gene Id: 10213
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensiti		MD14 (D18C7) Rabb t cross-react with COF	0	es endogenous levels of	total PSMD14 protein	. This antibody does
Species predicted t react based on 100 sequence homolog	%	nopus, Dog				
Source / Purificatio		phoclonal antibody is p sidues near the amino	-	nunizing animals with a s nan PSMD14 protein.	synthetic peptide corre	sponding to
Background	sul 19: hei ba: As: op Th mc RE Of cla bot cla bot gt fou It h tog cle cha	bstrate proteins. It cor S/PA700 regulatory pa teroheptameric β-ring teroheptameric α-ring se, in part, is compose sociated with diverse en the gate formed by e lid consists of ubiqu odification of ubiquitin EG, can also bind to th the subunits that com ssified as a metalloen th yeast and humans ubedded, highly conse MM, from Jab1/Pad1/ ur charged amino acid has been proposed tha gether with the preced ave ubiquitin chains v	sists largely of t article (RP) that s ( $\beta_{1-7}$ ) that cont s ( $\alpha_{1-7}$ ). The RP ed of a heterohe cellular Activities the $\alpha$ -subunits, itin receptors an chain topology ( e end of the 20S prise the 19S R izyme DUB and (3-6). Indeed, PS rved signature r MPN domain me s: a glutamate re at the histidine re ing glutamate, for with proximal spe	nt proteolytic complex in wo sub-complexes, the can cap either end of the ain three catalytic β-sub includes a base and a li xameric ring of ATPase s) family. The ATPase su thus exposing the unfol d DUBs that function in 1,2). Other modulators of S CP and activate it (1,2) P lid, only PSMD14 (PO its activity has been sho SMD14 harbors an Mp1 notif for metal-depender etalloenzyme. The JAMM esidue followed by two h esidues, in concert with the prims the catalytic site of ecificity relative to the su implicated PSMD14 as a	20S catalytic core part e CP. The CP consists units and are flanked of d, each having multipl subunits belonging to ubunits function to unfo ded substrate to the ca recruitment of ubiquitir of proteasome activity, ). H1) has a known func- town to be critical for pro- L-Pad1-N-terminal (MP at isopeptidases that hav motif of PSMD14 co istidines and an aspar the aspartate, bind to a PSMD14 (3,4). PSMD bstrate, thus removing	ticle (CP) and the of two stacked on either side by two e subunits. The the AAA (ATPases old the substrate and atalytic $\beta$ -subunits. nated substrates and such as PA28/11S tion. PSMD14 is oteasome function in PN) domain with an as been dubbed nsists of a pattern of tate (EX <sub>n</sub> HXHX <sub>10</sub> D). a zinc ion that, p14 is thought to whole ubiquitin
Background Refere	2. I 3. \ 4. ` 5. I 6. ( 7. I	Verma, R. et al. (2002) Yao, T. and Cohen, R. Maytal-Kivity, V. et al. Gallery, M. et al. (2007) Liu, H. et al. (2009) <i>Pl</i>	Mol Cell Proteo ) Science 298, 6 E. (2002) Nature (2002) BMC Bio 7) Mol Cancer Ti LoS One 4, e554	mics 10, R110.003871. 511-5. e 419, 403-7. chem 3, 28. her 6, 262-8.	07.	

1/1/24, 6:44 AM	PSMD14 (D18C7) Rabbit mAb (#4197) Datasheet Without Images Cell Signaling Technology			
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	WB: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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