e at -20C	PSMA2 Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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++-		3 Trask Lane Danvers	Massachusetts 01923 USA		

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 28	Source: Rabbit	UniProt ID: #P25787	Entrez-Gene Id: 5683		
Product Usage Information	A V	pplication Vestern Blotting	mmunooutoohomia	tr ()		Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		PSMA2 Antibody detects endogenous levels of total PSMA2 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr223 of human PSMA2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		The 20S proteasome is the major proteolytic enzyme complex involved in intracellular protein degradation. It consists of four stacked rings, each with seven distinct subunits. The two outer layers are identical rings composed of α subunits (called PSMAs), and the two inner layers are identical rings composed of β subunits. While the catalytic sites are located on the β rings (1-3), the α subunits are important for assembly and as binding sites for regulatory proteins (4). Seven different α and ten different β proteasome genes have been identified in mammals (5). PA700, PA28, and PA200 are three major protein complexes that function as activators of the 20S proteasome. PA700 binds polyubiquitin with high affinity and associates with the 20S proteasome to form the 26S proteasome, which preferentially degrades polyubiquitinated proteins (1-3). The proteasome has a broad substrate spectrum that includes cell cycle regulators, signaling molecules, tumor suppressors, and transcription factors. By controlling the degradation of these intracellular proteins, the proteasome functions in cell cycle regulation, cancer development, immune responses, protein folding, and disease progression (6-9).						
Background Refere	ences 1. 2. 3. 4. 5. 6. 7. 8. 9.	Dahlmann, B. (2005) Pickart, C.M. and Coh Nandi, D. et al. (2006) Lupas, A. et al. (1993) Monaco, J.J. and Nar Murray, A.W. (2004) C Ciechanover, A. (2006) Wang, J. and Maldona Rubinsztein, D.C. (20	Essays Biochem. 4 nen, R.E. (2004) N.) J. Biosci. 31, 137) Enzyme Protein 4 di, D. (1995) Annu Cell 116, 221-34. 6) Proc. Am. Thora ado, M.A. (2006) C 06) Nature 443, 78	41, 31-48. at. Rev. Mol. Cell Bi -55. 17, 252-73. 1. Rev. Genet. 29, 72 c. Soc. 3, 21-31. Sell. Mol. Immunol. 3 10-6.	ol. 5, 177-87. 29-54. 3, 255-61.			
Species Reactivity	Sp	ecies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffe	r IMF 0.1	PORTANT: For wester % Tween® 20 at 4°C	n blots, incubate m with gentle shaking	embrane with dilute g, overnight.	ed primary antibody in 59	% w/v BSA, 1X TBS,		
Applications Key	w	B: Western Blotting IF	-IC: Immunofluore	scence (Immunocyt	ochemistry)			
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 						
Trademarks and Patents	Ce Ale	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation.						

PSMA2 Antibody (#2455) Datasheet Without Images Cell Signaling Technology

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