PSMA5 (K231) Antibody Cell Signaling TECHNOLOGY* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)



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

Applications: Reacti W, IF-IC H M R		MW (kDa): 27	Source/Isotype: Rabbit	UniProt ID: #P28066	Entrez-Gene Id: 5686	
Product Usage Information	Application Western Blotting Immunofluorescence		<u>,</u>		Dilution 1:1000 1:50	
StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 10020°C. Do not aliquot the antibody.				/ml BSA and 50% gl	lycerol. Store at –	
Specificity/Sensitivity	PSMA5 (K231) Antiboo	PSMA5 (K231) Antibody detects endogenous levels of total PSMA5 protein.				
Source / Purification	residues surrounding	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys231 of human PSMA5 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background Background Reference	 degradation. It consists are identical rings corresponded of β suburt important for assemble different β proteasom major protein complete with high affinity and preferentially degrads spectrum that include factors. By controlling cycle regulation, cance 9). S 1. Dahlmann, B. (2005) 2. Pickart, C.M. and Construction and the sector sector	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). 1. Dahlmann, B. (2005) <i>Essays Biochem.</i> 41, 31-48. 2. Pickart, C.M. and Cohen, R.E. (2004) <i>Nat. Rev. Mol. Cell Biol.</i> 5, 177-87. 3. Nandi, D. et al. (2006) <i>J. Biosci.</i> 31, 137-55. 4. Lupas, A. et al. (1993) <i>Enzyme Protein</i> 47, 252-73. 5. Monaco, J.J. and Nandi, D. (1995) <i>Annu. Rev. Genet.</i> 29, 729-54. 6. Murray, A.W. (2004) <i>Cell</i> 116, 221-34. 7. Ciechanover, A. (2006) <i>Proc. Am. Thorac. Soc.</i> 3, 21-31. 8. Wang, J. and Maldonado, M.A. (2006) <i>Cell. Mol. Immunol.</i> 3, 255-61.				
	9. Rubinsztein, D.C. (2	.006) <i>Nature</i> 443, 78	0-6.			
Species Reactivity	Species reactivity is de	etermined by testing	g in at least one approve	ed 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	W: Western Blotting I	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	H: Human M: Mouse	H: Human M: Mouse R: Rat Mk: Monkey				
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