

PSMA3 Antibody



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #P25788	Entrez-Gene Id: 5684
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		PSMA3 Antibody detects endogenous levels of total PSMA3 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val228 of human PSMA3 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 References		 Dahlmann, B. (2005) Essays Biochem. 41, 31-48. Pickart, C.M. and Cohen, R.E. (2004) Nat. Rev. Mol. Cell Biol. 5, 177-87. Nandi, D. et al. (2006) J. Biosci. 31, 137-55. Lupas, A. et al. (1993) Enzyme Protein 47, 252-73. Monaco, J.J. and Nandi, D. (1995) Annu. Rev. Genet. 29, 729-54. Murray, A.W. (2004) Cell 116, 221-34. Ciechanover, A. (2006) Proc. Am. Thorac. Soc. 3, 21-31. Wang, J. and Maldonado, M.A. (2006) Cell. Mol. Immunol. 3, 255-61. Rubinsztein, D.C. (2006) Nature 443, 780-6. 				
Species Reactiv	rity	Species reactivity is de	etermined by testin	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

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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