PSMA6 Antibody				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
2459	Web:	info@cellsignal.com cellsignal.com		
#2	3 Trask Lane   Danvers   Massachusetts   01923   USA			
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 26	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P60900	Entrez-Gene Id: 5687		
Product Usage Information	9	ApplicationDilutionWestern Blotting1:1000						
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/Ser	nsitivity	PSMA6 Antibody detects endogenous levels of total PSMA6 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residue surrounding Arg93 of human PSMA6 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	<b>ground</b> 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 ring 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 polyubiquit 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 transcripti factors. By controlling the degradation of these intracellular proteins, the proteasome functions in ce cycle regulation, cancer development, immune responses, protein folding, and disease progression (9).					two outer layers are identical rings α subunits are ent α and ten d PA200 are three inds polyubiquitin me, which d substrate s, and transcription me functions in cell		
Background References 1. Dahlmann, B. (2005) Essays Biochem. 41, 31-48.   2. Pickart, C.M. and Cohen, R.E. (2004) Nat. Rev. Mol. Cell Biol. 5, 177-87.   3. Nandi, D. et al. (2006) J. Biosci. 31, 137-55.   4. Lupas, A. et al. (1993) Enzyme Protein 47, 252-73.   5. Monaco, J.J. and Nandi, D. (1995) Annu. Rev. Genet. 29, 729-54.   6. Murray, A.W. (2004) Cell 116, 221-34.   7. Ciechanover, A. (2006) Proc. Am. Thorac. Soc. 3, 21-31.   8. Wang, J. and Maldonado, M.A. (2006) Cell. Mol. Immunol. 3, 255-61.   9. Rubinsztein, D.C. (2006) Nature 443, 780-6.								
Species Reacti	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot I	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 K	(ey	W: Western Blotting						
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey						
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