e at -20C	PSMA5 (T14) Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only	y. Not for Use in Diagnostic Procedu	ires
	y, Not for 03c in Diagnostic i roccut	1103.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source: Rabbit	UniProt ID: #P28066	Entrez-Gene Id: 5686		
Product Usage Information	-	pplication estern Blotting			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		PSMA5 (T14) Antibody detects endogenous levels of total PSMA5 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr14 of human PSMA5 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	2. P 3. N 4. L 5. M 6. N 7. C 8. V	Dahlmann, B. (2005) <i>I</i> Pickart, C.M. and Coh Jandi, D. et al. (2006) upas, A. et al. (1993) Jonaco, J.J. and Nan Jurray, A.W. (2004) <i>C</i> Ciechanover, A. (2006) Vang, J. and Maldona Rubinsztein, D.C. (200	en, R.E. (2004) Na J. Biosci. 31, 137 Enzyme Protein 4 di, D. (1995) Annu cell 116, 221-34. p Proc. Am. Thora ado, M.A. (2006) C	at. Rev. Mol. Cell Bio -55. 17, 252-73. 1. Rev. Genet. 29, 72 c. Soc. 3, 21-31. iell. Mol. Immunol. 3	9-54.			
Species Reactivity	Spec	cies reactivity is deter	rmined by testing i	n at least one appro	ved application (e.g., we	stern 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						
Cross-Reactivity Ke	X : X	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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Limited Uses								

PSMA5 (T14) Antibody (#2458) Datasheet Without Images Cell Signaling Technology

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