S5a/PSMD4 Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 49	Source/Isotype: Rabbit	UniProt ID: #P55036	Entrez-Gene Id: 5710
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		S5a/PSMD4 Antibody detects endogenous levels of total S5a/PSMD4 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly344 of human S5a/PSMD4 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		S5a (PSMD4) is a subunit of the 19S regulatory proteasome complex functioning in ubiquitinated-protein targeting and degradation (1). S5a contains two polyubiquitin binding motifs (UIM) that bind multiubiquitin chains by hydrophobic interaction (2,3). In addition to ubiquitin, the UIM of S5a shows high affinity to a ubiquitin-like domain present in many proteins. S5a binds to these types of proteins directly and mediates their targeting to the proteasome for degradation (4,5).				
Background References		1. Deveraux, Q. et al. (1995) <i>J. Biol. Chem.</i> 270, 23726-23729. 2. Young, P. et al. (1998) <i>J. Biol. Chem.</i> 273, 5461-5467. 3. Beal, R. et al. (1996) <i>Proc. Natl. Acad. Sci. USA</i> 93, 861-866. 4. Fujiwara, K. et al. (2004) <i>J. Biol. Chem.</i> 279, 4760-4767. 5. Sakata, E. et al. (2003) <i>EMBO Rep.</i> 4, 301-306.				
Species Reactiv	vity	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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