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PTP-PEST (D4W7W) Rabbit mAb

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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 110 to 125	Source/Isotype: Rabbit IgG	UniProt ID: #Q05209	Entrez-Gene Id: 5782	
Product Usage Information	App Wes Imm	Dication Stern Blotting nunoprecipitation			Dilution 1:1000 1:50		
Storage	Supp 0.029	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensiti	vity PTP-	PTP-PEST (D4W7W) Rabbit mAb recognizes endogenous levels of total PTP-PEST protein.					
Source / Purificatio	n Mono resid	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg747 of human PTP-PEST protein.					
Background	PTP- regio regul deph modu lymp PTP- Abl a Crk, PTP- activi	 PTP-PEST is a ubiquitously expressed cytosolic protein tyrosine phosphatase with multiple proline-rich regions that appear to be the docking sites for PTP-PEST binding partners or substrates (1). PTP-PEST regulates fibroblast adhesion, migration, and cytokinesis through its association with and dephosphorylation of p130 Cas, paxillin, PSTPIP1, WASP, and other adhesion molecules (1-5). By modulating phosphorylation states of Shc, Pyk2, Fak, and WASP, PTP-PEST negatively regulates lymphocyte activation (1,6). In mammary epithelial cells, EGF facilitates the dephosphorylation of Jak2 by PTP-PEST, thereby interfering with lactogenic hormone PRL signaling (7). PTP-PEST dephosphorylates c-Abl as well, which affects the phosphorylation states of PTP-PEST substrates such as paxillin, p130 Cas, Crk, and PSTPIP1 (8). PTP-PEST regulates adhesion and motility of cultured epithelial cells through modulation of Rho GTPase activity (9), and is required for integrin-mediated endothelial cell adhesion and migration (10). 					
Background Refere	ences 1. Da 2. Ga 3. Sh 4. An 5. Cô 6. Ba 7. Ho 8. Co 9. Es 10. So	 Davidson, D. and Veillette, A. (2001) <i>EMBO J</i> 20, 3414-26. Garton, A.J. and Tonks, N.K. (1999) <i>J Biol Chem</i> 274, 3811-8. Shen, Y. et al. (2000) <i>J Biol Chem</i> 275, 1405-13. Angers-Loustau, A. et al. (1999) <i>J Cell Biol</i> 144, 1019-31. Côté, J.F. et al. (2002) <i>J Biol Chem</i> 277, 2973-86. Badour, K. et al. (2004) <i>J Exp Med</i> 199, 99-112. Horsch, K. et al. (2001) <i>Mol Endocrinol</i> 15, 2182-96. Cong, F. et al. (2000) <i>Mol Cell</i> 6, 1413-23. Espejo, R. et al. (2010) <i>Am J Physiol Cell Physiol</i> 299, C454-63. Souza, C.M. et al. (2012) <i>J Biol Chem</i> 287, 43180-90. 					
Species Reactivity	Speci	es reactivity is dete	rmined by testing	in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe	r IMPO milk, 1	RTANT: For wester 1X TBS, 0.1% Twee	n blots, incubate en® 20 at 4°C wit	membrane with diluted h gentle shaking, overn	primary antibody in 59 ight.	∕₀ w/v nonfat dry	
Applications Key	WB:	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity K	ey H: hui X: Xe GP: C	man M: mouse R: r nopus Z: zebrafish Guinea Pig Rab: rat	at Hm: hamster l B: bovine Dg: do bbit All: all specie	Mk: monkey Vir: virus M og Pg: pig Sc: S. cerevi s expected	/i: mink C: chicken Dr siae Ce: C. elegans H	n: D. melanogaster r: horse	
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PTP-PEST (D4W7W) Rabbit mAb (#14735) Datasheet Without Images Cell Signaling Technology

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