Store at -200

PTP-PEST (AG10) Mouse mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110 to 125	Source/Isotype: Mouse IgG1	UniProt ID: #Q05209	Entrez-Gene ld: 5782	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
	Imi	Immunoprecipitation 1:50					
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitiv		PTP-PEST (AG10) Mouse mAb detects endogenous levels of total PTP-PEST protein. This antibody does not cross-react with other protein tyrosine phosphatases.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with human PTP-PEST recombinant protein. The antibody recognizes an epitope within the amino-terminal 305 residues.					
Background	regi regu dep mod lym PTF Abl Crk PTF	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	2. G 3. S 4. A	 Davidson, D. and Veillette, A. (2001) EMBO J 20, 3414-26. Garton, A.J. and Tonks, N.K. (1999) J Biol Chem 274, 3811-8. Shen, Y. et al. (2000) J Biol Chem 275, 1405-13. Angers-Loustau, A. et al. (1999) J Cell Biol 144, 1019-31. Côté, 15 et al. (2002) 1 Biol Chem 277, 2973-86. 					

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- 8. Cong, F. et al. (2000) Mol Cell 6, 1413-23.
- 9. Espejo, R. et al. (2010) Am J Physiol Cell Physiol 299, C454-63.
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

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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1/1/24, 6:27 AM **Limited Uses**

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