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## Chronophin/PDXP (C85E3) Rabbit



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Applications: WB	Reactivity: H M R Hm Mk B	Sensitivity: Endogenous	<b>MW (kDa):</b> 31	Source/Isotype: Rabbit IgG	UniProt ID: #Q96GD0	Entrez-Gene Id: 57026	
Product Usage Information	• • •	Application Western Blotting		Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.					
Specificity / Sen	sitivity Chro	Chronophin/PDXP (C85E3) Rabbit mAb detects endogenous levels of total chronophin/PDXP protein.					
Source / Purifica	ation Mond	Monoclonal antibody is produced by immunizing animals with recombinant mouse MBP-chronophin.					
Background	cytok betwe inhibi (SSH cofilir dephe	Cofilin is a conserved actin-severing protein required for processes that rely on actin dynamics, including cytokinesis and cell motility (reviewed in 1). Regulation of actin dynamics requires the controlled cycling between the phosphorylated and unphosphorylated forms of cofilin (2). The severing activity of cofilin is inhibited by LIMK or TESK phosphorylation at the conserved amino-terminal Ser3 of cofilin (3,4). Slingshot (SSH) phosphatase, for which there have been three mammalian isoforms identified, dephosphorylates cofilin <i>in vivo</i> (5). Chronophin (CIN, PDXP) is a haloacid dehalogenase phosphatase that also dephosphorylates cofilin. Alteration of CIN activity through overexpression of either the wildtype or phosphatase-inactive mutant CIN interferes with actin dynamics, cell morphology and cytokinesis (6).					
Background Re	ang, T.Y. et al. (200 per, S. et al. (1998) shima, J. et al. (200 va, R. et al. (2002)	I. (1999) J. Biol. Chem. 274, 33827-33830. . (2006) Curr. Opin. Cell Biol. 18, 26-31. 1998) Nature 393, 805-809. . (2001) J. Biol. Chem. 276, 31449-31458. 1002) Cell 108, 233-246. 12005) Nat. Cell Biol. 7, 21-29.					

**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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

**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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