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p130 Cas (E1L9G) Rabbit mAb



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Applications: W, IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #P56945	Entrez-Gene Id: 9564		
Product Usage Information Storage	2	Application Western Blotting Immunoprecipitation Supplied in 10 mM soc	dium HEPES (pH 7.5	i), 150 mM NaCl, 100 µg	Dilution 1:1000 1:100 /ml BSA, 50% glycer	ol and less than		
j-		0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.						
Specificity/Sensitivity p130 Cas (E1L9G) Rabbit mAb recognizes endogenous levels of tota			otal p130 Cas protei	n.				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu116 in the SH3 domain of human p130 Cas protein.				prresponding to		
Background		p130 Cas (Crk-associated substrate) is a docking protein containing multiple protein-protein interaction domains. The amino-terminal SH3 domain may function as a molecular switch regulating CAS tyrosine phosphorylation, as it interacts with focal adhesion kinase (FAK) (1) and the FAK-related kinase PYK2 (2), as well as the tyrosine phosphatases PTP-1B (3) and PTP-PEST (4). The carboxy-terminal Src binding domain (SBD) contains a proline-rich motif that mediates interaction with the SH3 domains of Src-family kinases (SFKs) and a tyrosine phosphorylation site (Tyr668 and/or Tyr670) that can promote interaction with the SH2 domain of SFKs (5). The p130 Cas central substrate domain, the major region of tyrosine phosphorylation, is characterized by 15 tyrosines present in Tyr-X-X-Pro (YXXP) motifs, including Tyr165, 249, and 410. When phosphorylated, most YXXP motifs are able to serve as docking sites for proteins with SH2 or PTB domains including adaptors, C-Crk, Nck, and inositol 5'-phosphatase 2 (SHIP2) (6). The tyrosine phosphorylation of p130 Cas has been implicated as a key signaling step in integrin control of normal cellular behaviors including multiply, proliferation, and survival. Aberrant Cas tyrosine phosphorylation may contribute to cell transformation by certain oncoproteins (5).						
Background Ro	eferences	1. Polte, T.R. and Hanks, S.K. (1997) <i>J Biol Chem</i> 272, 5501-9. 2. Astier, A. et al. (1997) <i>J Biol Chem</i> 272, 228-32. 3. Liu, F. et al. (1996) <i>J Biol Chem</i> 271, 31290-5. 4. Garton, A.J. et al. (1997) <i>Oncogene</i> 15, 877-85. 5. Ruest, P.J. et al. (2001) <i>Mol Cell Biol</i> 21, 7641-52. 6. Bouton, A.H. et al. (2001) <i>Oncogene</i> 20, 6448-58.						
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	еу	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human R: Rat Mk: Monkey						
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