Phospho-p130 Cas (Tyr165) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #P56945	Entrez-Gene Id: 9564
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		Phospho-p130 Cas (Tyr165) Antibody detects endogenous levels of p130 Cas only when phosphorylated at tyrosine 165. The antibody may cross-react with other phosphorylated tyrosines in the substrate domain of p130 Cas. The antibody may cross-react with phosphorylated PDGFR.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr165 of human p130 Cas. Antibodies are purified by proteinA and peptide affinity chromatography.				
Background		domains. The amino-t phosphorylation, as it as well as the tyrosine domain (SBD) contains family kinases (SFKs) a interaction with the SI of tyrosine phosphory including Tyr165, 249, sites for proteins with 2 (SHIP2) (6). The tyrosintegrin control of nor	erminal SH3 doma interacts with foca phosphatases PTF s a proline-rich mo and a tyrosine phos H2 domain of SFKs flation, is character and 410. When ph SH2 or PTB domai sine phosphorylational cellular behav	docking protein containing may function as a moul adhesion kinase (FAK) (P-1B (3) and PTP-PEST (4) tif that mediates interacts phorylation site (Tyr668 (5). The p130 Cas centralized by 15 tyrosines presuosphorylated, most YXX as including adaptors, Confor p130 Cas has been iors including motility, perto cell transformation be	ecular switch regul 1) and the FAK-rela The carboxy-termicion with the SH3 do and/or Tyr670) tha I substrate domain, sent in Tyr-X-X-Pro (P motifs are able to Crk, Nck, and inosi implicated as a key roliferation, and su	ating CAS tyrosine ted kinase PYK2 (2), nal Src binding omains of Srct can promote the major region YXXP) motifs, serve as docking tol 5'-phosphatase is signaling step in rvival. Aberrant Cas
Background References		 Polte, T.R. and Hanks, S.K. (1997) J Biol Chem 272, 5501-9. Astier, A. et al. (1997) J Biol Chem 272, 228-32. Liu, F. et al. (1996) J Biol Chem 271, 31290-5. Garton, A.J. et al. (1997) Oncogene 15, 877-85. Ruest, P.J. et al. (2001) Mol Cell Biol 21, 7641-52. Bouton, A.H. et al. (2001) Oncogene 20, 6448-58. 				
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		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				

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