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Phospho-p130 Cas (Tyr249) Antibody



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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 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-p130 Cas (Tyr249) Antibody detects endogenous levels of p130 Cas only when phosphorylated at tyrosine 249. The antibody may cross-react with other phosphorylated tyrosines in the substrate domain of p130 Cas.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr249 of human p130Cas. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		domains. The amino- phosphorylation, as it as well as the tyrosine domain (SBD) contain family kinases (SFKs) interaction with the S of tyrosine phosphory including Tyr165, 249 sites for proteins with 2 (SHIP2) (6). The tyro integrin control of no	terminal SH3 doma t interacts with foca e phosphatases PTF is a proline-rich mo and a tyrosine phos H2 domain of SFKs ylation, is character , and 410. When ph i SH2 or PTB domai isine phosphorylati rmal cellular behav	docking protein containi in may function as a mo I adhesion kinase (FAK) (P-1B (3) and PTP-PEST (4) tif that mediates interact cphorylation site (Tyr668 (5). The p130 Cas centralized by 15 tyrosines presosphorylated, most YXX ins including adaptors, Con of p130 Cas has been iors including motility, pet to cell transformation be	lecular switch regul (1) and the FAK-rela . The carboxy-termi tion 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 Srctan promote the major region YXXP) motifs, serve as docking tol 5'-phosphatase r 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 Reactiv	vity	Species reactivity is d	etermined by testir	g in at least one approve	ed 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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