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Phospho-p130 Cas (Tyr165) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130	Source: Rabbit	UniProt ID: #P56945	Entrez-Gene Id: 9564	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		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 / Sen	at ty	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 / Purifica	to re		re produced by immunizing animals with a synthetic phosphopeptide corresponding g Tyr165 of human p130 Cas. Antibodies are purified by proteinA and peptide affinity				
Background	dom pho as v dom kina	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 SFCs (5). The p130 Cas control substrate domain the major region of tyrosine					

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 motility, proliferation, and survival. Aberrant Cas tyrosine phosphorylation may contribute to cell transformation by certain oncoproteins (5).

Background References

- 1. Polte, T.R. and Hanks, S.K. (1997) J Biol Chem 272, 5501-9.
- 2. Astier, A. et al. (1997) J Biol Chem 272, 228-32.
- 3. Liu, F. et al. (1996) J Biol Chem 271, 31290-5.
- 4. Garton, A.J. et al. (1997) Oncogene 15, 877-85.
- 5. Ruest, P.J. et al. (2001) Mol Cell Biol 21, 7641-52.
- 6. 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 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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Limited Uses

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