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p130 Cas (E1L9G) Rabbit mAb



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Applications: WB, IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #P56945	Entrez-Gene Id: 9564	
Product Usage Information	Ар	Application			Dilution		
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sens	i tivity p13	p130 Cas (E1L9G) Rabbit mAb recognizes endogenous levels of total p130 Cas protein.					
Source / Purificat	i on Mor	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.

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 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

 $\textbf{WB:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation}$

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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