

## 13846

## p130 Cas (E1L9H) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactivity: N, IP, IHC-P, IF-IC, H M R Mk FC-FP	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 130	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P56945	<b>Entrez-Gene Id</b> 9564
Product Usage	Application			Dilution	
Information	Western Blotting			1:1000	
	Immunoprecipitation	1		1:1	00
	Immunohistochemistry (Paraffin)			1:50 - 1:200	
	Immunofluorescence (Immunocytochemistry)			1:100 - 1:400	
	Flow Cytometry (Fixed/Permeabilized)			1:100 - 1:400	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibody.</i>				
	For a carrier free (BSA and azide free) version of this product see product #43164.				
Specificity/Sensitivity	p130 Cas (E1L9H) Rabbit mAb recognizes endogenous levels of total p130 Cas protein.				
Source / Purification	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 Srcfamily 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	<ol> <li>Polte, T.R. and Hanks, S.K. (1997) J Biol Chem 272, 5501-9.</li> <li>Astier, A. et al. (1997) J Biol Chem 272, 228-32.</li> <li>Liu, F. et al. (1996) J Biol Chem 271, 31290-5.</li> <li>Garton, A.J. et al. (1997) Oncogene 15, 877-85.</li> <li>Ruest, P.J. et al. (2001) Mol Cell Biol 21, 7641-52.</li> <li>Bouton, A.H. et al. (2001) Oncogene 20, 6448-58.</li> </ol>				
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Species Reactivity	species reactivity is d	etermined by testin	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

**Applications Key** 

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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