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Phospho-CrkL (Tyr207) Antibody


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

Applications: WB, IP, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 39	Source: Rabbit	UniProt ID: #P46109	Entrez-Gene Id: 1399
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)	Dilution 1:1000 1:50 1:200
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-CrkL (Tyr207) Antibody detects endogenous levels of CrkL only when phosphorylated at tyrosine 207. The antibody cross-reacts with CrkII phosphorylated at tyrosine 221.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr207 of human CrkL. Antibodies are purified by protein A and peptide affinity chromatography	
Background	CrkL, a 39 kDa adaptor protein, has a key regulatory role in hematopoietic cells. CrkL has one SH2 and two SH3 domains, with 60% homology to CrkII (1). The amino-terminal SH3 domain of CrkL binds proteins, such as C3G, SOS, PI3K, c-Abl, and BCR/Abl. The SH2 domain of CrkL can bind to tyrosine-phosphorylated proteins, such as Cbl, HEF1, CAS, and paxillin (2,3). CrkL is involved in various signaling cascades initiated by different cytokines and growth factors. The biological outcomes of the Crk-activated signal transduction include the modulation of cell adhesion, cell migration, and immune cell responses (4). CrkL is a prominent substrate of the BCR/Abl oncoprotein in chronic myelogenous leukemia and binds to both BCR/Abl and c-Abl (5). CrkL is prominently and constitutively tyrosine phosphorylated in CML neutrophils and is not phosphorylated in normal neutrophils. Moreover, stimulation of normal neutrophils with cytokines and agonists does not induce tyrosine phosphorylation of this protein (6), indicating that it may be a useful target for therapeutic intervention or as a disease marker. Tyr207 in CrkL is the BCR/Abl phosphorylation site (7).	
Background References	1. Satter, M. and Salgia, R. (1998) <i>Leukemia</i> 12, 637-644. 2. Feller, S. M. et al. (1998) <i>J. Cell. Physiol.</i> 177, 535-552. 3. Kiyokawa, E. et al. (1997) <i>Crit. Rev. Oncog.</i> 8, 329-342. 4. Feller, S. M. et al. (2001) <i>Oncogene</i> 20, 6348-6371. 5. Grumbach, I. M. et al. (2001) <i>Br. J. Haematol.</i> 112, 327-336. 6. Nicholas, G. L. et al. (1994) <i>Blood</i> 84, 2912-2918. 7. de Jong, R. et al. (1997) <i>Oncogene</i> 14, 507-513.	
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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)	
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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