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#84287

# PhosphoPlus® CrkL (Tyr207) Antibody Duet



Cell Signaling  
TECHNOLOGY®

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Entrez-Gene ID #1399  
UniProt ID #P46109

New 12/20

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Products Included	Product #	Quantity	Mol. Wt.	Isotype
Phospho-CrkL (Tyr207) (E9A1U) XP® Rabbit mAb	34940	100 µl	39 kDa	Rabbit IgG
CrkL (D4G7G) Rabbit mAb	38710	100 µl	39 kDa	Rabbit IgG

See [www.cellsignal.com](http://www.cellsignal.com) for individual component applications, species cross-reactivity, dilutions, and additional application protocols.

**Description:** PhosphoPlus® Duets from Cell Signaling Technology (CST) provide a means to assess protein activation status. Each Duet contains an activation-state and total protein antibody to your target of interest. These antibodies have been selected from CST's product offering based upon superior performance in specified applications.

**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).

**Specificity/Sensitivity:** CrkL (D4G7G) Rabbit mAb recognizes endogenous levels of total human CrkL protein. Phospho-CrkL (Tyr207) (E9A1U) XP® Rabbit mAb recognizes endogenous levels of CrkL protein only when phosphorylated at Tyr207, and this antibody does not recognize phospho-CrkII at Tyr221.

**Source/Purification:** Monoclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr120 of human CrkL protein and a synthetic phosphopeptide corresponding to residues surrounding Tyr207 of human CrkL protein.

**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. Do not aliquot the antibody.

For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com).

#### Background References:

- (1) Satter, M. and Salgia, R. (1998) *Leukemia* 12, 637-644.
- (2) Feller, S. M. et al. (1998) *J. Cell. Physiol.* 177, 535-552.
- (3) Kiyokawa, E. et al. (1997) *Crit. Rev. Oncog.* 8, 329-342.
- (4) Feller, S. M. et al. (2001) *Oncogene* 20, 6348-6371.
- (5) Grumbach, I. M. et al. (2001) *Br. J. Haematol.* 112, 327-336.
- (6) Nicholas, G. L. et al. (1994) *Blood* 84, 2912-2918.
- (7) de Jong, R. et al. (1997) *Oncogene* 14, 507-513.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.