Revision 1

#84287 Store at -20C

PhosphoPlus® CrkL (Tyr207) Antibody Duet

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

UniProt ID:	Entrez-Gene Id:
#P46109	1399

Product Includes	Product #	Quantity	Mol. Wt.	Isotype/Source
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

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

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.

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*.

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) *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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