

CRKL

Reactivity: Human Mouse Rat

Tested applications: WB IHC

Recommended Dilution: WB 1:500 - 1:2000 IHC 1:20 - 1:100

Calculated MW: 34kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human CRKL

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CRKL; Crk-like protein;

Catalog #: A0511

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 1399

Isotype: IgG

Swiss Prot: P46109

Purity: Affinity purification

For research use only.

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).

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