

CrkL (32H4) Mouse mAb

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID # 1399
Swiss-Prot Acc. # P46109

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W Endogenous	H, R, Hm	39 kDa	Mouse IgG1**

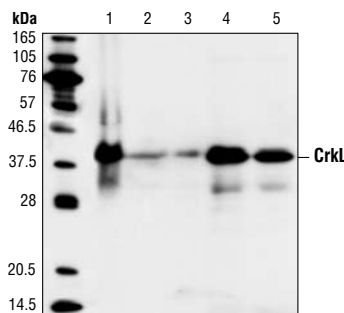
Background: CrkL, a 39 kDa adaptor protein, has a key regulatory role in hematopoietic cells. CrkL has one SH2 and two SH3 domains, with 60% homology to CrkII (1). The amino-terminal SH3 domain of CrkL binds proteins such as C3G, SOS, PI3K, c-Abl and BCR/Abl. The SH2 domain of CrkL can bind to tyrosine-phosphorylated 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 (32H4) Mouse mAb detects endogenous levels of CrkL protein. It does not cross-react with related proteins.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino-terminal residues of human CrkL.

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.



Western blot analysis of extracts from HT29 (lane 1), THP1 (lane 2), C6 (lane 3), SUP-M2 (lane 4) and Jurkat (lane 5) cells using CrkL (32H4) Mouse mAb.

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.

*Species cross-reactivity is determined by western blot.

**Anti-mouse secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western Blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.