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Store at -20C
#3182

CrkL (32H4) Mouse mAb

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

Applications: W	Reactivity: H R Hm	Sensitivity: Endogenous	MW (kDa): 39	Source/Isotype: Mouse IgG1	UniProt ID: #P46109	Entrez-Gene Id: 1399
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

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

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

- Satter, M. and Salgia, R. (1998) *Leukemia* 12, 637-644.
- Feller, S. M. et al. (1998) *J. Cell. Physiol.* 177, 535-552.
- Kiyokawa, E. et al. (1997) *Crit. Rev. Oncog.* 8, 329-342.
- Feller, S. M. et al. (2001) *Oncogene* 20, 6348-6371.
- Grumbach, I. M. et al. (2001) *Br. J. Haematol.* 112, 327-336.
- Nicholas, G. L. et al. (1994) *Blood* 84, 2912-2918.
- de Jong, R. et al. (1997) *Oncogene* 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **R:** Rat **Hm:** Hamster

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