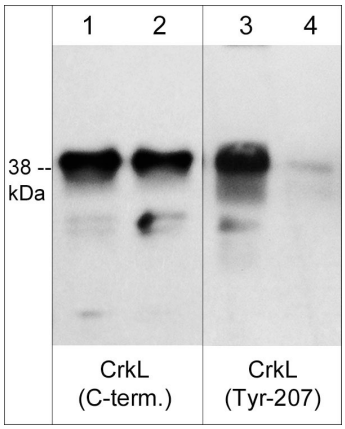
CrkL (Tyr-207), phospho-specific

Rabbit Polyclonal

Cat. # CP4671
Size 100 µl

Background

The Crk family of adaptor proteins (Crk I, Crk II and CrkL) are Src Homology 2 (SH2) and Src Homology 3 (SH3) domain-containing proteins that form protein complexes important for transmiting signals downstream of tyrosine kinases. Both Crk II and CrkL are composed of a single SH2 domain, followed by two tandem SH3 domains. Crk II is also alternatively spliced to a minor product, Crk I, which is structurally and functionally more similar to the v-Crk oncogene. Both Crk II and CrkL are ubiquitously expressed and their SH domains are highly homologous, however both are required for mouse development and have distinct non-overlapping phenotypes in knockout mice. Phosphorylation may be important for regulating Crk activity. Crk II Tyr-221 (CrkL Tyr-207) phosphorylation is a negative regulatory site, while Crk Tyr -251 phosphorylation in the SH3 domain is a positive regulatory site. EGF stimulation induces phosphorylation of Tyr-251, which increases binding of Crk to the SH2 domain of Abl, and promotes transactivation of Abl.



Western blot of human K562 cells stimulated with pervanadate (1 mM) for 30 min. (lanes 1-4). The blot was treated with alkaline phosphatase to dephosphorylate CrkL (lanes 2 & 4), then the blot was probed with rabbit polyclonals CrkL (C-terminus) CP3081 (lanes 1 & 2) and CrkL (Tyr-207) phospho-specific CP4671 (lanes 3 & 4).

Background References

Feller, S.M. (2001) Oncogene. 20(44):6348.
Feller, S.M. & Lewitzky, M. (2006) Curr. Pharm. Des. 12(5):529.
Sriram, G. et al. (2011) Oncogene 30(46):4645.

Applications

WB	1:1000
ELISA	1:2000

End user should determine optimal dilution for their particular applications and experiments.
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

Species Reactivity

Hu, Rt, Ms, Ck, F

Specificity

This antibody was affinity purified using phospho-CrkL (Tyr-207) peptide (without carrier). The antibody detects a 38 kDa* protein corresponding to the molecular mass of CrkL on SDS-PAGE immunoblots of human K562 cells stimulated with pervanadate. This reactivity is not observed after akaline phosphatase treatment.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen

Uniprot ID: P46109

Phospho-Crk (Tyr-207) synthetic peptide (coupled to KLH) corresponding to amino acid residues surrounding Tyr-207 in human CrkL. This peptide sequence is well conserved in mouse and rat CrkL, and has 40% homology with the conserved site in Crk II (Tyr-221). The site is not found in Crk I.

Buffer and Storage

Rabbit polyclonal, affinity-purified antibody is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Stable for 1 year.

Related Products

CM3321	Crk II (C-terminal region) Mouse Monoclonal
CP4701	Crk II (Tyr-221), phospho-specific Rabbit Polyclonal
CP3091	Crk (Tyr-251), phospho-specific Rabbit Polyclonal
CK6940	Crk Phospho-Regulation Antibody Sampler Kit
CP3081	CrkL (C-terminus) Rabbit Polyclonal

www.ecmbio.com
info@ecmbio.com
toll-free: 1-800-859-8202
telephone: 859-879-2075

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