



p-Crk II (Ser 41): sc-130186

BACKGROUND

The v-Crk oncogene product shares homologous amino acid sequences, designated SH2 (for Src homology region 2) and SH3, with many molecules involved in signal transduction. The v-Crk cellular homolog, c-Crk, is a member of a newly emerging class of genes, including Nck and GRB2/ASH, which encode proteins that consist primarily of SH2 and SH3 domains. Two distinct human c-Crk cDNAs, designated Crk I and Crk II, have been identified and shown to represent alternative splice products of c-Crk. The major c-Crk transforming activity appears associated with c-Crk I p28 expression. IGF-I receptor kinase can induce phosphorylation of Crk II at Tyr 221. Human Crk II may also be phosphorylated at Ser 41.

REFERENCES

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3. Matsuda, M., et al. 1990. Binding of transforming protein, P47gag-Crk, to a broad range of phosphotyrosine-containing proteins. *Science* 248: 1537-1539.
4. Matsuda, M., et al. 1992. Biological and biochemical activity of v-Crk chimeras containing the SH2/SH3 regions of phosphatidylinositol-specific phospholipase C-g and Src. *J. Virol.* 66: 115-121.
5. Matsuda, M., et al. 1992. Two species of human Crk cDNA encode proteins with distinct biological activities. *Mol. Cell. Biol.* 12: 3482-3489.
6. Tanaka, S., et al. 1993. Both the SH2 and SH3 domains of human Crk protein are required for neuronal differentiation of PC12 cells. *Mol. Cell. Biol.* 13: 4409-4415.
7. Birge, R.B., et al. 1993. Identification and characterization of a high-affinity interaction between v-Crk and tyrosine-phosphorylated paxillin in CT10-transformed fibroblasts. *Mol. Cell. Biol.* 13: 4648-4656.
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CHROMOSOMAL LOCATION

Genetic locus: CRK (human) mapping to 17p13.3; Crk (mouse) mapping to 11 B5.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

p-Crk II (Ser 41) is a rabbit polyclonal antibody raised against a short amino acid sequence containing phosphorylated Ser 41 of Crk II of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

p-Crk II (Ser 41) is recommended for detection of Ser 41 phosphorylated Crk II of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Crk II siRNA (h): sc-37072, Crk II siRNA (m): sc-44854, Crk II shRNA Plasmid (h): sc-37072-SH, Crk II shRNA Plasmid (m): sc-44854-SH, Crk II shRNA (h) Lentiviral Particles: sc-37072-V and Crk II shRNA (m) Lentiviral Particles: sc-44854-V.

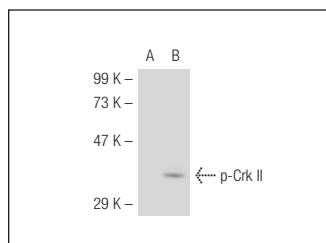
Molecular Weight of p-Crk II isoforms: 40/42 kDa.

Positive Controls: Crk II (m): 293T Lysate: sc-125171 or Crk II (m): 293T Lysate: sc-125171.

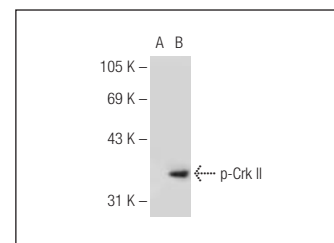
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto B Blocking Reagent: sc-2335 (use 50 mM NaF, sc-24988, as diluent) and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



p-Crk II (Ser 41): sc-130186. Western blot analysis of Crk II phosphorylation in non-transfected: sc-117752 (A) and mouse Crk II transfected: sc-125171 (B) 293T whole cell lysates.



p-Crk II (Ser 41): sc-130186. Western blot analysis of Crk II phosphorylation in non-transfected: sc-110760 (A) and human Crk II transfected: sc-110474 (B) 293 whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.