

# Crk-L (K-20): sc-31693

## BACKGROUND

SH2 and SH3 (Src homology) domains were originally identified as critical functional domains within non-receptor proteins with tyrosine kinase activity. A subset of these proteins appears to exist predominately of SH2/SH3 domains in the absence of detectable catalytic domains. One of the first members of the family to be identified, Crk, is a transformation-specific protein that induces elevation of cellular phosphotyrosine levels, but lacks tyrosine kinase activity itself. A second protein, Nck, consists solely of three SH3 domains and one SH2 domain, while GRB2 contains an SH2 domain flanked on both sides by SH3 domains. A member of this protein class, Crk-L, is encoded by a gene located on chromosome 22, band 11, centromeric of the chronic myelogenous leukemia breakpoint region. Crk-L encodes a 303 amino acid protein with one SH2 and 2 SH3 domains.

## CHROMOSOMAL LOCATION

Genetic locus: CRKL (human) mapping to 22q11.21; Crkl (mouse) mapping to 16 A3.

## SOURCE

Crk-L (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Crk-L of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-31693 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

Crk-L (K-20) is recommended for detection of Crk-L 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Crk-L (K-20) is also recommended for detection of Crk-L in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for Crk-L siRNA (h): sc-35114, Crk-L siRNA (m): sc-35115, Crk-L shRNA Plasmid (h): sc-35114-SH, Crk-L shRNA Plasmid (m): sc-35115-SH, Crk-L shRNA (h) Lentiviral Particles: sc-35114-V and Crk-L shRNA (m) Lentiviral Particles: sc-35115-V.

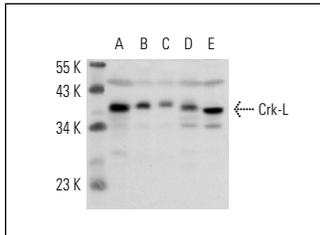
Molecular Weight of Crk-L: 36 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

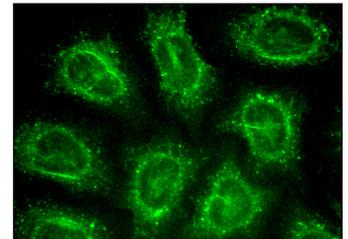
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Crk-L (K-20): sc-31693. Western blot analysis of Crk-L expression in A-431 (A), NIH/3T3 (B), PDGF-induced NIH/3T3 (C), HeLa (D) and Jurkat (E) whole cell lysates.



Crk-L (K-20): sc-31693. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Crk-L (B-1): sc-365092** or **Crk-L (A-1): sc-365471**, our highly recommended monoclonal alternatives to Crk-L (K-20).