

Crk-L (B-1): sc-365092

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 22q11.21, band 11, centromeric of the chronic myelogenous leukemia breakpoint region. Crk-L encodes a 303 amino acid protein with one SH2 and two SH3 domains.

CHROMOSOMAL LOCATION

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

SOURCE

Crk-L (B-1) is a mouse monoclonal antibody raised against amino acids 181-242 of Crk-L of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Crk-L (B-1) is available conjugated to agarose (sc-365092 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365092 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365092 PE), fluorescein (sc-365092 FITC), Alexa Fluor® 488 (sc-365092 AF488), Alexa Fluor® 546 (sc-365092 AF546), Alexa Fluor® 594 (sc-365092 AF594) or Alexa Fluor® 647 (sc-365092 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365092 AF680) or Alexa Fluor® 790 (sc-365092 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

Crk-L (B-1) is recommended for detection of Crk-L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

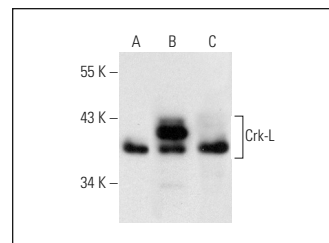
Molecular Weight of Crk-L: 36 kDa.

Positive Controls: Crk-L (h): 293T Lysate: sc-128367, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

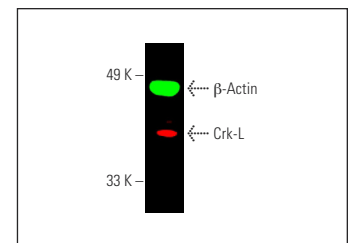
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Crk-L (B-1): sc-365092. Western blot analysis of Crk-L expression in non-transfected 293T: sc-117752 (A), human Crk-L transfected 293T: sc-128367 (B) and A-431 (C) whole cell lysates.



Simultaneous direct near-infrared western blot analysis of Crk-L expression, detected with Crk-L (B-1) Alexa Fluor® 790: sc-365092 AF790 and β-Actin expression, detected with β-Actin (C4) Alexa Fluor® 680: sc-47778 AF680 in HeLa whole cell lysate. Blocked with UltraCruz® Blocking Reagent: sc-516214.

SELECT PRODUCT CITATIONS

- Gill, M.B., et al. 2015. KSHV-TK is a tyrosine kinase that disrupts focal adhesions and induces Rho-mediated cell contraction. *EMBO J.* 34: 448-465.
- Nabekura, T., et al. 2018. Crk adaptor proteins regulate NK cell expansion and differentiation during mouse cytomegalovirus infection. *J. Immunol.* 200: 3420-3428.
- Wu, S., et al. 2020. A novel micropeptide encoded by Y-linked LINC00278 links cigarette smoking and AR signaling in male esophageal squamous cell carcinoma. *Cancer Res.* E-published.
- Badu-Nkansah, K. and Lechler, T. 2020. Proteomic analysis of desmosomes reveals novel components required for epidermal integrity. *Mol. Biol. Cell.* E-published.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.