**BACKGROUND**

APS (adapter molecule containing PH and SH2 domains), SH2-B and Lnk compose a family of adapter proteins, which contain a pleckstrin homology (PH) domain, an SH2 domain and a tyrosine phosphorylation site. Stimulation of B cell receptor (Bcr) or T cell receptor (TCR) results in the phosphorylation of the immunoreceptor tyrosine-based activation motif (ITAM) of Bcr, TCR and several substrates. APS, SH2-B and Lnk may bind to the ITAM domain of Bcr and TCR. Lnk is tyrosine phosphorylated in response to TCR stimulation and APS has been shown to be tyrosine phosphorylated in response to Bcr stimulation.

**CHROMOSOMAL LOCATION**

Genetic locus: SH2B3 (human) mapping to 12q24.12; Sh2b3 (mouse) mapping to 5 F.

**SOURCE**

Lnk (A-12) is a mouse monoclonal antibody raised against amino acids 447-575 mapping at the C-terminus of Lnk of human origin.

**PRODUCT**

Each vial contains 200 µg IgG\(_{2b}\) kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Lnk (A-12) is available conjugated to agarose (sc-393709 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393709 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393709 PE), fluorescein (sc-393709 FITC), Alexa Fluor® 488 (sc-393709 AF488), Alexa Fluor® 566 (sc-393709 AF566), Alexa Fluor® 594 (sc-393709 AF594) or Alexa Fluor® 647 (sc-393709 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-393709 AF680) or Alexa Fluor® 790 (sc-393709 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**STORAGE**

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

**APPLICATIONS**

Lnk (A-12) is recommended for detection of Lnk 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 Lnk siRNA (h): sc-40330, Lnk siRNA (m): sc-40331, Lnk shRNA Plasmid (h): sc-40330-SH, Lnk shRNA Plasmid (m): sc-40331-SH, Lnk shRNA (h) Lentiviral Particles: sc-40330-V and Lnk shRNA (m) Lentiviral Particles: sc-40331-V.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1. Western Blotting: use m-IgG B-P-HRP: sc-516102 or m-IgG B-P-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-203 (0.5 ml agarose/2.0 ml).

3) Immunofluorescence: use m-IgG B-P-FITC: sc-516140 or m-IgG B-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

- **SELECT PRODUCT CITATIONS**

**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.

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