

Lnk (N-20): sc-19741

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.

REFERENCES

1. Osborne, M.A., et al. 1995. *Biotechnology* 13: 1474-1478.
2. Huang, X., et al. 1995. Cloning and characterization of Lnk, a signal transduction protein that links T-cell receptor activation signal to phospholipase C γ 1, Grb2, and phosphatidylinositol 3-kinase. *Proc. Natl. Acad. Sci. USA* 92: 11618-11622.
3. Daeron, M., et al. 1995. The same tyrosine-based inhibition motif, in the intracytoplasmic domain of Fc γ RIIb, regulates negatively BCR-, TCR-, and FcR-dependent cell activation. *Immunity* 3: 635-646.
4. Takaki, S., et al. 1997. Characterization of Lnk. An adaptor protein expressed in lymphocytes. *J. Biol. Chem.* 272: 14562-14570.
5. Yokouchi, M., et al. 1997. Cloning and characterization of APS, an adaptor molecule containing PH and SH2 domains that is tyrosine phosphorylated upon B-cell receptor stimulation. *Oncogene* 15: 7-15.

CHROMOSOMAL LOCATION

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

SOURCE

Lnk (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Lnk of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-19741 P, (100 μ g 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.

PROTOCOLS

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

APPLICATIONS

Lnk (N-20) is recommended for detection of Lnk of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Lnk (N-20) is also recommended for detection of Lnk in additional species, including canine, bovine and porcine.

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.

Molecular Weight of Lnk: 68 kDa.

Positive Controls: WEHI-231 whole cell lysate: sc-2213.

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) 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.

RESEARCH USE

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



Try **Lnk (A-12): sc-393709** or **Lnk (F-9): sc-514025**, our highly recommended monoclonal alternatives to Lnk (N-20).