

Lnk (M-20): sc-7222

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

- 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.
- 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.
- Osborne, M.A., et al. 1995. The yeast tribrid system—genetic detection of *trans*-phosphorylated ITAM-SH2 interactions. *Biotechnology* 13: 1474-1478.
- Takaki, S., et al. 1997. Characterization of Lnk. An adaptor protein expressed in lymphocytes. *J. Biol. Chem.* 272: 14562-14570.
- 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; Lnk (mouse) mapping to 5 F.

SOURCE

Lnk (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Lnk of mouse 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-7222 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

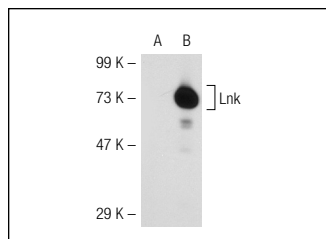
Lnk (M-20) is recommended for detection of Lnk of mouse, rat and, to a lesser extent, human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, 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 (m): sc-40331-SH, Lnk shRNA Plasmid (h): sc-40330-SH, Lnk shRNA (h) Lentiviral Particles: sc-40330-V and Lnk shRNA (m) Lentiviral Particles: sc-40331-V.

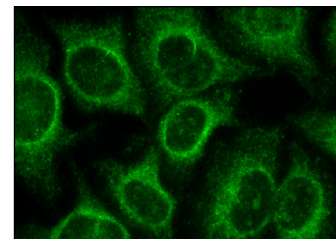
Molecular Weight of Lnk: 68 kDa.

Positive Controls: WEHI-231 whole cell lysate: sc-2213 or Lnk (m): 293T Lysate: sc-121364.

DATA



Lnk (M-20): sc-7222. Western blot analysis of Lnk expression in non-transfected: sc-117752 (A) and mouse Lnk transfected: sc-121364 (B) 293T whole cell lysates.



Lnk (M-20): sc-7222. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Yalcin, S., et al. 2010. ROS-mediated amplification of AKT/mTOR signalling pathway leads to myeloproliferative syndrome in Foxo3^{-/-} mice. *EMBO J.* 29: 4118-4131.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

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