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Lnk (m): 293T Lysate: sc-121364

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., Dalton, S. and Kochan, J.P. 1995. The yeast tribrid system—genetic detection of *trans*-phosphorylated ITAM-SH2 interactions. Biotechnology 13: 1474-1478.

2. Daeron, M., Latour, S., Malbec, O., Espinosa, E., Pina, P., Pasmans, S. and Fridman, W.H. 1995. The same tyrosine-based inhibition motif, in the intra-cytoplasmic domain of Fc γ RIIB, regulates negatively BCR-, TCR-, and FcR-dependent cell activation. Immunity 3: 635-646.

3. Huang, X., Li, Y., Tanaka, K., Moore, K.G. and Hayashi, J.I. 1995. Cloning and characterization of Lnk, a signal transduction protein that links T-cell receptor activation signal to phospholipase C γ1, GRB2, and phosphatidyli-nositol 3-kinase. Proc. Natl. Acad. Sci. USA 92: 11618-11622.

4. Yokouchi, M., Suzuki, R., Masuhara, M., Komiya, S., Inoue, A. and Yoshimura, A. 1997. Cloning and characterization of APS, an adaptor molecule containing PH and SH2 domains that is tyrosine phosphoryl-ated upon B-cell receptor stimulation. Oncogene 15: 7-15.

5. Takaki, S., Watts, J.D., Forbush, K.A., Nguyen, N.T., Hayashi, J., Alberola-Ila, J., Aebersold, R. and Perlmutter, R.M. 1997. Characterization of Lnk. An adaptor protein expressed in lymphocytes. J. Biol. Chem. 272: 14562-14570.

CHROMOSOMAL LOCATION

Genetic locus: Sh2b3 (mouse) mapping to 5 F.

PRODUCT

Lnk (m): 293T Lysate represents a lysate of mouse Lnk transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

Lnk (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Lnk antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Lnk (F-9): sc-514025 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Lnk expression in Lnk trans-fected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

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.

DATA
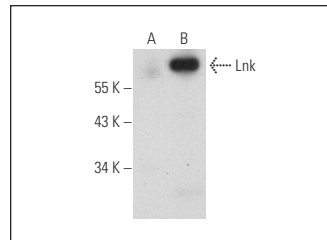
Lnk (F-9): sc-514025. Western blot analysis of Lnk expression in non-transfected: sc-117752 (**A**) and mouse Lnk transfected: sc-121364 (**B**) 293T whole cell lysates.

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.