

LNK2 (G-20): sc-48029

BACKGROUND

LNK2 (Ligand of NUMB protein X2, PDZ domain-containing RING finger protein 1, PDZRN1), which interacts with mammalian NUMB and Numblike, contains a RING finger domain, followed by a motif similar to a PTB-binding motif and four PDZ domains. LNK2 and LNK1 (a proposed relative) are multimodular proteins that bind NUMB, a cell fate determinant, through their NPXY motifs. Studies may suggest that LNK proteins act as molecular scaffolds that promote the aggregation of unrelated, interacting proteins, such as NUMB, to definitive subcellular sites. The LNK2 gene maps to chromosome 13q12.2 based on an alignment of the LNK2 sequence with the genomic sequence. LNK proteins may form large networks by homomeric binding, and their expression patterns overlap with those of the NUMB proteins. Furthermore, studies also suggest that the oligomerization of LNK2 and NUMB binding occurs simultaneously.

REFERENCES

1. Xie, Y., et al. 2001. Identification of a human LNK protein containing multiple PDZ domains. *Biochem. Gen.* 39: 117-126.
2. Nie, J., et al. 2002. LNK functions as a RING type E3 ubiquitin ligase that targets the cell fate determinant NUMB for ubiquitin-dependent degradation. *EMBO J.* 21: 93-102.
3. Rice, D.S., Northcutt, G.M. and Kurschner, C. 2002. The LNK family proteins function as molecular scaffolds for NUMB family proteins. *Mol. Cell. Neurosci.* 18: 525-540.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 603728. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: LNK2 (human) mapping to 13q12.2; Lnx2 (mouse) mapping to 5 G3.

SOURCE

LNK2 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LNK2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-48029 P, (100 µg 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

LNK2 (G-20) is recommended for detection of LNK2 of mouse and human origin by Western Blotting (starting dilution 1:200, 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).

LNK2 (G-20) is also recommended for detection of LNK2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for LNK2 siRNA (h): sc-60958, LNK2 siRNA (m): sc-60959, LNK2 shRNA Plasmid (h): sc-60958-SH, LNK2 shRNA Plasmid (m): sc-60959-SH, LNK2 shRNA (h) Lentiviral Particles: sc-60958-V and LNK2 shRNA (m) Lentiviral Particles: sc-60959-V.

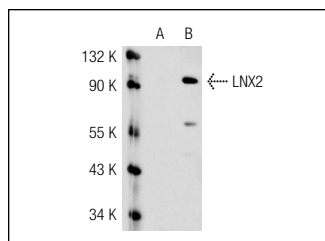
Molecular Weight of LNK2: 76 kDa.

Positive Controls: LNK2 (h): 293T Lysate: sc-115370.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



LNK2 (G-20): sc-48029. Western blot analysis of LNK2 expression in non-transfected: sc-117752 (A) and human LNK2 transfected: sc-115370 (B) 293T whole cell lysates.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **LNK2 (B-3): sc-398156** or **LNK2 (D-3): sc-398157**, our highly recommended monoclonal alternatives to LNK2 (G-20).