



LNK2 (h): 293T Lysate: sc-115370

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., Zhao, W., Wang, W., Zhao, S., Tang, R., Ying, K., Zhou, Z. and Mao, Y. 2001. Identification of a human LNK protein containing multiple PDZ domains. *Biochem. Genet.* 39: 117-126.
2. Nie, J., McGill, M.A., Dermer, M., Dho, S.E., Wolting, C.D. and McGlade, C.J. 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/>
5. Evans, W.J., Johnston, M.A., Greci, M.A., Ansari, M.A., Brady, J.C. and Ziller, J.W. 2003. Synthesis of arene-soluble mixed-metal Zr/Ce, Zr/Y, and related $[\text{Zr}_2(\text{O}^i\text{Pr})_6]\text{LNK2}_n$ complexes using the dizirconium nonaisopropoxide ligand. *Inorg. Chem.* 39: 2125-2129.
6. Katoh, M. and Katoh, M. 2004. Identification and characterization of PDZRN3 and PDZRN4 genes in silico. *Int. J. Mol. Med.* 13: 607-613.
7. Mirza, M., Raschperger, E., Philipson, L., Pettersson, R.F. and Sollerbrant, K. 2005. The cell surface protein coxsackie- and adenovirus receptor (CAR) directly associates with the ligand-of-NUMB protein-X2 (LNK2). *Exp. Cell Res.* 309: 110-120.

CHROMOSOMAL LOCATION

Genetic locus: LNK2 (human) mapping to 13q12.2.

PRODUCT

LNK2 (h): 293T Lysate represents a lysate of human LNK2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

LNK2 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive LNK2 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.

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.

PROTOCOLS

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