

ILPIP (N-12): sc-48548

BACKGROUND

ILPIP (ILP-interacting protein), also designated amyotrophic lateral sclerosis 2 juvenile chromosome region gene 2 (ALS2CR2), interacts with X-linked IAP (XIAP), a member of the inhibitor of apoptosis protein (IAP) family. The IAP family are caspase inhibitors that block the execution phase of apoptosis. IAPs are involved in the development and progression of solid tumors and hematologic malignancies, making them a potential target for cancer therapeutics. ILPIP enhances XIAP-mediated activation of the TGF β -activated kinase 1/c-Jun NH₂-terminal kinase 1 (TAK1/JNK1) signal transduction pathway. This pathway protects against the interleukin-1 β converting enzyme of FAS-mediated apoptosis. The protection of XIAP against apoptosis by ILPIP is caspase-independent. When expressed alone, ILPIP only moderately activates the TAK1/JNK1 signal transduction pathway.

REFERENCES

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2. Sanna, M.G., et al. 2002. ILPIP, a novel anti-apoptotic protein th of JNK1 and protection against apoptosis. *J. Biol. Chem.* 277: 30454-30462.
3. Strausberg, R.L., et al. 2002. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Nat. Acad. Sci. USA* 99: 16899-16903.
4. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607333. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Hillier, L.W., et al. 2005. Generation and annotation of the DNA sequences of human chromosomes 2 and 4. *Nature* 434: 724-731.
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CHROMOSOMAL LOCATION

Genetic locus: STRADB (human) mapping to 2q33.1; Stradb (mouse) mapping to 1 C1.3.

SOURCE

ILPIP (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ILPIP 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-48548 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

ILPIP (N-12) is recommended for detection of ILPIP- α 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).

Suitable for use as control antibody for ILPIP siRNA (h): sc-60842, ILPIP siRNA (m): sc-60843, ILPIP shRNA Plasmid (h): sc-60842-SH, ILPIP shRNA Plasmid (m): sc-60843-SH, ILPIP shRNA (h) Lentiviral Particles: sc-60842-V and ILPIP shRNA (m) Lentiviral Particles: sc-60843-V.

Molecular Weight of ILPIP α : 52 kDa.

Molecular Weight of ILPIP β : 35 kDa.

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.

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.


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 Satisfation
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Try **ILPIP (F-10): sc-390494** or **ILPIP (C-12): sc-376694**, our highly recommended monoclonal alternatives to ILPIP (N-12).