

LHFP (C-12): sc-84349

BACKGROUND

The development of lipomas, benign tumors composed of fatty tissues, have been linked to breakpoints in the HMGI-C gene. LHFP (lipoma HMGI-C fusion partner) is a 200 amino acid multi-pass membrane protein that acts as a fusion partner with HMGI-C in a lipoma with the translocation t(12;13)(q13-q15;q12). Located on chromosome 13, the gene encoding LHFP is in a region that is frequently targeted by chromosomal aberrations in lipomas. The LHFP/HMGI-C fusion transcript expresses 69 amino acids encoded by frame-shift LHFP sequences and three DNA binding domains of HMGI-C. The mouse homolog of LHFP shares 94% sequence similarity with the human protein. With the exception of peripheral blood leukocytes, LHFP is ubiquitously expressed.

REFERENCES

1. Ishwad, C.S., et al. 1997. The high mobility group I-C gene (HMGI-C): polymorphism and genetic localization. *Hum. Genet.* 99: 103-105.
2. Petit, M.M., et al. 1999. LHFP, a novel translocation partner gene of HMGI-C in a lipoma, is a member of a new family of LHFP-like genes. *Genomics* 57: 438-441.
3. Rogalla, P., et al. 2002. Absence of HMGI-C-LHFP fusion in pulmonary chondroid hamartomas with aberrations involving chromosomal regions 12q13 through 15 and 13q12 through q14. *Cancer Genet. Cytogenet.* 133: 90-93.
4. Online Mendelian Inheritance in Man, OMIM[™]. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606710. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: LHFP (human) mapping to 13q13.3; Lhfp (mouse) mapping to 3 C.

SOURCE

LHFP (C-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of LHFP of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84349 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-84349 X, 100 µg/0.1 ml.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

LHFP (C-12) is recommended for detection of LHFP of mouse, rat 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).

LHFP (C-12) is also recommended for detection of LHFP in additional species, including canine, porcine and avian.

Suitable for use as control antibody for LHFP siRNA (h): sc-75424, LHFP siRNA (m): sc-146719, LHFP shRNA Plasmid (h): sc-75424-SH, LHFP shRNA Plasmid (m): sc-146719-SH, LHFP shRNA (h) Lentiviral Particles: sc-75424-V and LHFP shRNA (m) Lentiviral Particles: sc-146719-V.

LHFP (C-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

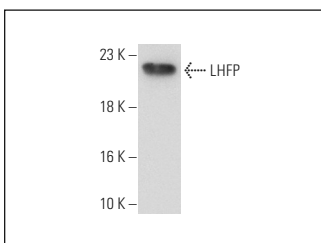
Molecular Weight of LHFP: 22 kDa.

Positive Controls: mouse heart extract: sc-2254.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



LHFP (C-12): sc-84349. Western blot analysis of LHFP expression in mouse heart tissue extract.

PROTOCOLS

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