

LZTFL1 (35-Y): sc-100968

BACKGROUND

LZTFL1 (leucine zipper transcription factor-like protein 1) is a 299 amino acid protein that shares 90% sequence identity with its mouse counterpart. While LZTFL1 is expressed in liver, brain, lung and kidney during early development, it is found in testis, heart, thymus, pancreas, ovary, prostate, colon, skeletal muscle and small intestine in adult tissues. LZTFL1 has a leucine zipper pattern and several coiled-coil domains, suggesting a possible role in transcriptional regulation. The gene encoding LZTFL1 is located in a tumor suppressor region on chromosome 3, indicating that LZTFL1 may be a potential tumor suppressor. Two isoforms of LZTFL1 exist due to alternative polyadenylation events.

REFERENCES

1. Busch, S.J. and Sassone-Corsi, P. 1990. Dimers, leucine zippers and DNA-binding domains. *Trends Genet.* 6: 36-40.
2. Kiss, H., et al. 2001. The LZTFL1 gene is a part of a transcriptional map covering 250 kb within the common eliminated region 1 (C3CER1) in 3p21.3. *Genomics* 73: 10-19.
3. Strausberg, R.L., et al. 2002. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* 99: 16899-16903.

CHROMOSOMAL LOCATION

Genetic locus: LZTFL1 (human) mapping to 3p21.31; Lztf1 (mouse) mapping to 9 F4.

SOURCE

LZTFL1 (35-Y) is a mouse monoclonal antibody raised against recombinant LZTFL1 of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

LZTFL1 (35-Y) is recommended for detection of LZTFL1 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), immunohistochemistry (including paraffin-embedded sections) (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 LZTFL1 siRNA (h): sc-77961, LZTFL1 siRNA (m): sc-149199, LZTFL1 shRNA Plasmid (h): sc-77961-SH, LZTFL1 shRNA Plasmid (m): sc-149199-SH, LZTFL1 shRNA (h) Lentiviral Particles: sc-77961-V and LZTFL1 shRNA (m) Lentiviral Particles: sc-149199-V.

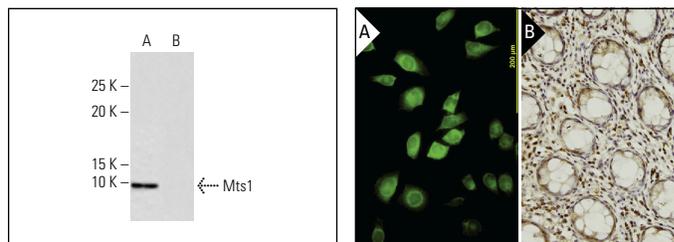
Molecular Weight of LZTFL1: 35 kDa.

Positive Controls: LZTFL1 (h): 293T Lysate: sc-172211, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



Mts1 (X9-7): sc-100784 Western blot analysis of Mts1 expression in human Mts1 transfected (A) and non-transfected (B) 293T whole cell lysates.

LZTFL1 (35-Y): sc-100968. Immunofluorescence staining of paraformaldehyde-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human colon tissue showing nuclear and cytoplasmic localization (B).

SELECT PRODUCT CITATIONS

1. Promchan, K. and Natarajan, V. 2020. Leucine zipper transcription factor-like 1 binds adaptor protein complex-1 and 2 and participates in trafficking of transferrin receptor 1. *PLoS ONE* 15: e0226298.

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.

PROTOCOLS

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