

# LZTFL1 (C-6): sc-376022

## 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.

## CHROMOSOMAL LOCATION

Genetic locus: LZTFL1 (human) mapping to 3p21.31; Ltzf1 (mouse) mapping to 9 F4.

## SOURCE

LZTFL1 (C-6) is a mouse monoclonal antibody raised against amino acids 1-299 representing full length LZTFL1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376022 X, 200 µg/0.1 ml.

LZTFL1 (C-6) is available conjugated to agarose (sc-376022 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376022 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376022 PE), fluorescein (sc-376022 FITC), Alexa Fluor® 488 (sc-376022 AF488), Alexa Fluor® 546 (sc-376022 AF546), Alexa Fluor® 594 (sc-376022 AF594) or Alexa Fluor® 647 (sc-376022 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376022 AF680) or Alexa Fluor® 790 (sc-376022 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

LZTFL1 (C-6) is recommended for detection of LZTFL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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.

LZTFL1 (C-6) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

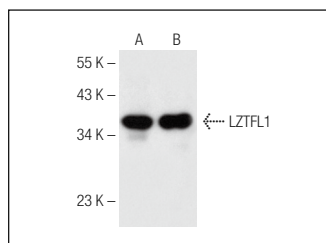
Molecular Weight of LZTFL1: 35 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

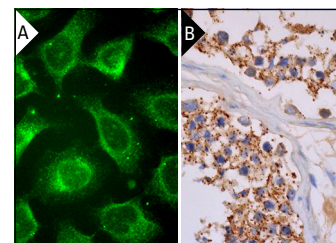
## RECOMMENDED SUPPORT REAGENTS

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



LZTFL1 (C-6): sc-376022. Western blot analysis of LZTFL1 expression in HeLa (A) and Jurkat (B) whole cell lysates.



LZTFL1 (C-6): sc-376022. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic staining of cells in seminiferous ducts and Leydig cells (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](http://www.scbt.com) for detailed protocols and support products.

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