# LACTBL1 (S-18): sc-247731



The Power to Question

## **BACKGROUND**

LACTBL1 (lactamase,  $\beta$ -like 1) is a 500 amino acid protein that belongs to the  $\beta$ -lactamase family. The gene encoding LACTBL1 maps to human chromosome 1p36.12 and mouse chromosome 4 D3. Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: LACTBL1 (human) mapping to 1p36.12; Lactbl1 (mouse) mapping to 4 D3.

## **SOURCE**

LACTBL1 (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LACTBL1 of human origin.

# **STORAGE**

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

#### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-247731 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

LACTBL1 (S-18) is recommended for detection of LACTBL1 of mouse 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).

LACTBL1 (S-18) is also recommended for detection of LACTBL1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for LACTBL1 siRNA (h): sc-78948, LACTBL1 siRNA (m): sc-141554, LACTBL1 shRNA Plasmid (h): sc-78948-SH, LACTBL1 shRNA Plasmid (m): sc-141554-SH, LACTBL1 shRNA (h) Lentiviral Particles: sc-78948-V and LACTBL1 shRNA (m) Lentiviral Particles: sc-141554-V.

Molecular Weight of LACTBL1: 55 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.

# **RESEARCH USE**

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

#### **PROTOCOLS**

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

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