



LST1 (L-15): sc-107703

BACKGROUND

LST1 (leukocyte-specific transcript 1), also known as B144, is a 97 amino acid protein single-pass membrane protein. LST1 may play a role in modulating immune responses, as well as dendritic cell maturation. LST1 has also been found to induce morphological changes, including microspikes and filopodia, when overexpressed in a variety of cell types. Localized to the endomembrane system, LST1 is expressed as nine isoforms produced by alternative splicing. Isoform 1, also designated LST1A, and isoform 2, also designated LST1C, have inhibitory effects on lymphocyte proliferation. Induced by IFN- γ , LST1 is expressed in adult lung, thymus, placenta, kidney and tonsil and fetal liver, spleen and brain.

REFERENCES

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- Castriconi, R., et al. 2003. Transforming growth factor β 1 inhibits expression of NKp30 and NKG2D receptors: consequences for the NK-mediated killing of dendritic cells. *Proc. Natl. Acad. Sci. USA* 100: 4120-4125.
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CHROMOSOMAL LOCATION

Genetic locus: LST1 (human) mapping to 6p21.33.

SOURCE

LST1 (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of LST1 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 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-107703 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LST1 (L-15) is recommended for detection of LST1 of 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); non cross-reactive with isoforms LST1-5, LST1-7, LST1-8 or LST1-9.

Suitable for use as control antibody for LST1 siRNA (h): sc-95628, LST1 shRNA Plasmid (h): sc-95628-SH and LST1 shRNA (h) Lentiviral Particles: sc-95628-V.

Molecular Weight of LST1: 11 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.