

PLSCR1 (h3): 293T Lysate: sc-172101

BACKGROUND

The calcium-dependent plasma membrane protein phospholipid scramblase 1 (PLSCR1) contributes to the transbilayer movement of phosphatidylserine and other membrane phospholipids upon influx of calcium into the cytosol. This movement results in plasma membrane phospholipid remodeling and surface exposure of phosphatidylserine in injured or apoptotic cells, which leads to cell death. Interferons and other cytokines induce expression of PLSCR1, implying that PLSCR1 also functions in cytokine signaling pathways. EGF stimulation results in tyrosine phosphorylation of PLSCR1 on Tyrosines 69 and 74, which allows it to interact with Shc, thereby connecting Src kinase activation to stimulation of the EGF receptor.

REFERENCES

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7. Ben-Efraim, I., et al. 2004. Phospholipid scramblase 1 is imported into the nucleus by a receptor-mediated pathway and interacts with DNA. *Biochemistry* 43: 3518-3526.
8. Frasch, S.C., et al. 2004. Phospholipid flip-flop and phospholipid scramblase 1 (PLSCR1) co-localize to uropod rafts in formylated Met-Leu-Phe-stimulated neutrophils. *J. Biol. Chem.* 279: 17625-17633.

CHROMOSOMAL LOCATION

Genetic locus: PLSCR1 (human) mapping to 3q24.

PRODUCT

PLSCR1 (h3): 293T Lysate represents a lysate of human PLSCR1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

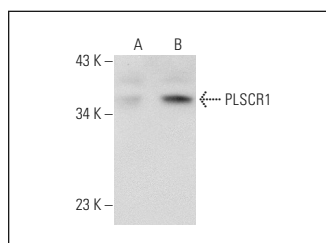
APPLICATIONS

PLSCR1 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive PLSCR1 antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

PLSCR1 (1E9): sc-59645 is recommended as a positive control antibody for Western Blot analysis of enhanced human PLSCR1 expression in PLSCR1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



PLSCR1 (1E9): sc-59645. Western blot analysis of PLSCR1 expression in non-transfected: sc-117752 (A) and human PLSCR1 transfected: sc-172101 (B) 293T whole cell lysates.

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.