

PLSCR4 (E-19): sc-68124

BACKGROUND

The calcium-dependent plasma membrane protein PLSCR4 (phospholipid scramblase 4), also known as PLS4, TRA1 or cell growth inhibiting protein 43, is a 329 amino acid member of the phospholipid scramblase (PLS) family. The PLS family consists of membrane-bound enzymes that participate in the bi-directional movement of phospholipids. PLSCR4 is expressed in a wide variety of tissues including brain (unlike other PLS family members) but it is not found in peripheral blood lymphocytes. It contains an N-terminal proline-rich region with several PxxP motifs and a calcium-binding domain at its C-terminus. PLSCR4 shares 46% identity with PLSCR1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLSCR4 (human) mapping to 3q24; Plscr4 (mouse) mapping to 9 E3.3.

SOURCE

PLSCR4 (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLSCR4 of human origin.

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-68124 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLSCR4 (E-19) is recommended for detection of phospholipid scramblase 4 of mouse, rat 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).

PLSCR4 (E-19) is also recommended for detection of phospholipid scramblase 4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PLSCR4 siRNA (h): sc-62830, PLSCR4 siRNA (m): sc-62831, PLSCR4 shRNA Plasmid (h): sc-62830-SH, PLSCR4 shRNA Plasmid (m): sc-62831-SH, PLSCR4 shRNA (h) Lentiviral Particles: sc-62830-V and PLSCR4 shRNA (m) Lentiviral Particles: sc-62831-V.

Molecular Weight of PLSCR4: 37 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.

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 or our catalog for detailed protocols and support products.