

PLSCR2 (E-13): sc-103122

BACKGROUND

The calcium-dependent mitochondrial membrane protein PLSCR2 (phospholipid scramblase 2) is a member of the phospholipid scramblase (PLS) family. The PLS family consists of membrane-bound enzymes that participate in the bi-directional movement of phospholipids. Human PLSCR2 is a 224 amino acid single-pass membrane protein that shares 59% sequence similarity with human PLSCR1, with most identity in the C-terminal region which includes the calcium binding site. PLSCR2 does not contain the typical proline-rich N-terminal region that other members of the PLS family share, however it does contain PxxP motifs that probably participate in binding proteins with WW or SH3 domains. With exclusive expression in testis, PLSCR2 may play a significant role in the activation of mast cells, fibrin clot formation and in the recognition of injured and apoptotic cells by phagocytes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLSCR2 (human) mapping to 3q24.

SOURCE

PLSCR2 (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLSCR2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103122 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLSCR2 (E-13) is recommended for detection of PLSCR2 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 other PLSCR family members.

Suitable for use as control antibody for PLSCR2 siRNA (h): sc-77986, PLSCR2 shRNA Plasmid (h): sc-77986-SH and PLSCR2 shRNA (h) Lentiviral Particles: sc-77986-V.

Molecular Weight of PLSCR2: 26 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.