

## PLSCR5 (N-15): sc-103124

### BACKGROUND

Lipids in biological membranes are distributed asymmetrically across the bilayer with choline-containing lipids and sphingolipids on the extracellular surface and amine-containing phospholipids on the cytoplasmic surface. Phospholipid asymmetry is necessary for normal membrane function and disruption of asymmetry is associated with pathological conditions. The plasma membrane maintains lipid asymmetry via actions of aminophospholipid translocase, floppase and lipid scramblases. The phospholipid scramblase (PLS) family consists of membrane-bound enzymes that participate in the bi-directional movement of phospholipids. PLSCR5 (phospholipid scramblase 5) is a 271 amino acid calcium-dependent mitochondrial membrane protein that is a member of the phospholipid scramblase (PLS) family. The gene encoding PLSCR5 maps to human chromosome 3, which is made up of about 214 million bases encoding over 1,100 genes.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PLSCR5 (human) mapping to 3q24.

### RESEARCH USE

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

### SOURCE

PLSCR5 (N-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of PLSCR5 of human origin.

### PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103124 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PLSCR5 (N-15) is recommended for detection of PLSCR5 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 PLSCR5 siRNA (h): sc-78163, PLSCR5 shRNA Plasmid (h): sc-78163-SH and PLSCR5 shRNA (h) Lentiviral Particles: sc-78163-V.

Molecular Weight of PLSCR5: 30 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.