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 remodelling 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 Src, and thereby connecting Src kinase activation to stimulation of the EGF receptor.

REFERENCES

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

SOURCE
PLSCR1 (H-11) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 5-28 within a cytoplasmic domain of PLSCR1 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PLSCR1 (H-11) is available conjugated to agarose (sc-518068 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-518068 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518068 PE), fluorescein (sc-518068 FITC), Alexa Fluor® 488 (sc-518068 AF488), Alexa Fluor® 546 (sc-518068 AF546), Alexa Fluor® 594 (sc-518068 AF594) or Alexa Fluor® 647 (sc-518068 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518068 AF680) or Alexa Fluor® 790 (sc-518068 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

PLSCR1 (H-11) is recommended for detection of PLSCR1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for PLSCR1 siRNA (h): sc-44028, PLSCR1 shRNA Plasmid (h): sc-44028-SH and PLSCR1 shRNA (h) Lentiviral Particles: sc-44028-V.

Molecular Weight of PLSCR1: 37 kDa.

APPLICATIONS
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.

DATA

RESEARCH USE
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