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PLSCR3 (m): 293T Lysate: sc-125835

BACKGROUND

The calcium-dependent mitochondrial membrane protein PLSCR3 (phospholipid scramblase 3), also known as PLS3, 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. PLSCR3 is expressed in a wide variety of tissues but is not found in brain, liver or testis. It is involved in the regulation of mitochondrial respiratory function, morphology and apoptotic responses. More specifically, PLSCR3 is responsible for mediating the transport of cardiolipin from the inner mitochondrial membrane to the outer mitochondrial membrane. Cardiolipin is a major polyglycerophospholipid that plays a role in the regulation of mitochondrial enzymes involved in the generation of ATP. PLSCR3 activity is activated/phosphorylated by PKC δ and PLSCR3 functions as a downstream effector in PKC δ -induced apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Plscr3 (mouse) mapping to 11 B3.

PRODUCT

PLSCR3 (m): 293T Lysate represents a lysate of mouse PLSCR3 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PLSCR3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PLSCR3 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.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.