

# group II sPLA<sub>2</sub> (m): 293T Lysate: sc-125421

## BACKGROUND

Phospholipases catalyze the release of fatty acids from phospholipids. One member of the phospholipase family, iPLA<sub>2</sub>, is detected as a membrane-bound protein with multiple smaller isoforms, which result from alternative splicing. Two isoforms, ankyrin-iPLA<sub>2-1</sub> and 2, lack the catalytic domain and are thought to be involved in the negative regulation of iPLA<sub>2</sub> activity. The SH-iPLA<sub>2</sub> isoform is cytoplasmic-ally localized. The human gene encoding iPLA<sub>2</sub> maps to chromosome 22q13.1. Another phospholipase, sPLA<sub>2</sub>, belongs to a family of secretory phospholipases A<sub>2</sub>, which represent an expanding family of related enzymes. sPLA<sub>2</sub> has both membrane bound and secreted forms that are encoded by a single gene. sPLA<sub>2</sub> is involved in the regulation of phospholipid metabolism in biomembranes and in eicosanoid biosynthesis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Pla2g2a (mouse) mapping to 4 D3.

## PRODUCT

group II sPLA<sub>2</sub> (m): 293T Lysate represents a lysate of mouse group II sPLA<sub>2</sub> transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° 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.

## APPLICATIONS

group II sPLA<sub>2</sub> (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive group II sPLA<sub>2</sub> antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

## PROTOCOLS

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