



# SZABO SCANDIC

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# group VI iPLA<sub>2</sub> (m): 293T Lysate: sc-120640

## 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</sub>-1 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 cytoplasmically 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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3. Cupillard, L., Koumanov, K., Mattei, M.G., Lazdunski, M. and Lambeau, G. 1997. Cloning, chromosomal mapping, and expression of a novel human secretory phospholipase A<sub>2</sub>. *J. Biol. Chem.* 272: 15745-15752.
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5. Ma, Z., Wang, X., Nowatzke, W., Ramanadham, S. and Turk, J. 1999. Human pancreatic islets express mRNA species encoding two distinct catalytically active isoforms of group VI phospholipase A<sub>2</sub> (iPLA<sub>2</sub>) that arise from an exon-skipping mechanism of alternative splicing of the transcript from the iPLA<sub>2</sub> gene on chromosome 22q13.1. *J. Biol. Chem.* 274: 9607-9616.
6. Larsson-Forsell, P.K., Kennedy, B.P. and Claesson, H.E. 1999. The human calcium-independent phospholipase A<sub>2</sub> gene multiple enzymes with distinct properties from a single gene. *Eur. J. Biochem.* 262: 575-585.

## CHROMOSOMAL LOCATION

Genetic locus: Pla2g6 (mouse) mapping to 15 E1.

## PRODUCT

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

## APPLICATIONS

group VI iPLA<sub>2</sub> (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive group VI iPLA<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.

## 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

## PROTOCOLS

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