PRODUCT INFORMATION

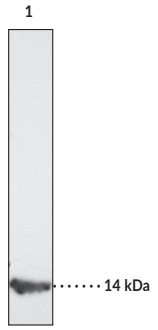
sPLA2 (human Type IIA) Monoclonal Antibody (Clone SCACC353)

Item No. 160500

Overview and Properties

Contents:	This vial contains 350 µg of protein G-purified monoclonal antibody.
Synonyms:	Secretory Phospholipase A_2 (human synovial)
Immunogen:	Human recombinant synovial sPLA2 Type IIA
Cross Reactivity:	(-) Human $sPLA_2$ (type V), Bee venom $sPLA_2$ (Type III)
Species Reactivity:	(+) Human $sPLA_2$ (type IIA)
Uniprot No.:	P14555
Form:	Solid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	PBS, pH 7.2, with 50% glycerol, 0.1% BSA and 0.02% NaN_3
Clone:	SCACC353
Host:	Mouse
Isotype:	IgG1
Applications:	Immunoprecipitation (IP) and Western blot (WB); the recommended starting dilution is 1:150 and 1:200, respectively.[1] Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.[2,3]

Image



Lane 1: Human $sPLA_2$ type II (250 ng)

Description

PLA_2 catalyzes the hydrolysis of phospholipids at the *sn*-2 position yielding a free fatty acid and a lysophospholipid.[4] The release of arachidonic acid from membrane phospholipids by PLA_2 is believed to be a key step in the control of eicosanoid production within the cell.[5] Human synovial $sPLA_2$ is a secreted, 14 kDa protein which is dependent on Ca^{2+} for optimal activity. Human synovial $sPLA_2$ is 79% homologous to rat platelet and mouse type II $sPLA_2$s.

References

1. Lousse, J.-C., Defrère, S., Colette, S., *et al. Hum. Reprod.* **25(3)**, 734-741 (2010).
2. Hulthe, J., Wiklund, O., Hurt-Camejo, E., *et al. Arterioscler. Thromb. Vasc. Biol.* **21**, 269-274 (2001).
3. Peilot, H., Rosengren, B., Bondjers, G., *et al. J. Biol. Chem.* **275** (**30**), 22895-22904 (2000).
4. Dennis, E.A. *Enzymes* **XVI**, 307-353 (1983).
5. Dennis, E.A. *J. Biol. Chem.* **269**, 13057-13060 (1994).

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