Mouse PLA2G2A Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF4925U
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PLA2G2A in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant mouse PLA2G2A Asn22-Cys146 Accession # NP_001076000
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Secretory Phospholipase A_2 is an enzyme that hydrolyses the *sn*-2 ester bond of phospholipids, generating non-esterified free fatty acids and lysophospholipids (1-3). PLA2G2A is a calcium-dependent phospholipase expressed in many cell types participating in inflammation-associated cellular responses, including platelets, neutrophils, and mast cells. It may function as an enzymatic component of the host defense mechanism. For example, human tears contain a high concentration of PLA2G2A, a principal bactericidal factor against Gram-positive bacteria in this fluid. It may play a role in cell proliferation through binding a receptor on the cell membrane. PLA2G2A has been shown to have pro-atherogenic properties both in the circulation and within the arterial wall (4). It is an acute phase protein expressed in response to a variety of pro-inflammatory cytokines. Circulating levels of sPLA2G2A are higher in coronary artery disease (CAD) patients and are associated with increased risk of future CAD (5).

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Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475