

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PLA2G1B in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) PLA2G2A, rhPLA2G7, recombinant mouse (rm) PLA2G2A, or rmPLA2R1 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 630823
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human PLA2G1B Met1-Ser148 Accession # NM_000928
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunoprecipitation	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

PLA2G1B, also called Secretory Phospholipase A2, hydrolyses the sn-2 ester bond of phospholipids, including those in cell membranes, to generate non-esterified free fatty acids and lysophospholipids. Most secretory PLA2s are stored in cytoplasmic granules and are released into plasma and biological fluids on appropriate cell activation, especially during systemic inflammatory, autoimmune, or allergic disease. PLA2G1B is abundant in digestive organs but is also found elsewhere. Human PLA2G1B shares 78% and 76% amino acid sequence identity with mouse and rat PLA2G1B, respectively.

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