

DESCRIPTION

Species Reactivity	Human
Specificity	Detects huma PLD2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 846224
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PLD2 Met1-His117 Accession # O14939
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

Phospholipase D2 (PLD2) is an enzyme encoded by the PLD2 gene. Phosphatidylcholine (PC)-specific phospholipases D (PLDs) catalyze the hydrolysis of PC to produce phosphatidic acid and choline. The Phospholipase D (PLD) lipid-signaling enzyme superfamily has long been studied for its roles in cell communication and a wide range of cell biological processes. Potent PLD2 inhibitors are available, like VU 0364739 hydrochloride (Tocris Cat. 4171) and ML 298 hydrochloride (Tocris Cat. 4895). Three different PLD2 isoforms -PLD2A, PLD2B and PLD2C- have been described, ranging from 38 to 105 KDa.

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