

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human PLD1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PLD1 Met1-Pro140 Accession # Q13393
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

PLD1 (Phospholipase D1a) is a 110-120 kDa member of the phospholipase D family of enzymes. It is expressed in endothelial cells and select tissues. Following activation and association with Type Ia PIPkinase, PLD1 hydrolyzes the phosphodiester bond of membrane phosphatidylcholine, generating phosphatidic acid. Human PLD1 is 1074 amino acids in length. It contains one PX/phox homology domain (aa 84-206), a pleckstrin homology domain (aa 219-328), and two phosphodiesterase enzyme regions (aa 459-486 and 891-918). There are three splice variants. One shows a 10 aa substitution for aa 962-1074 (PLD1d), a second shows an 84 aa substitution for aa 514-1074 (PLD1c), and a third shows an Asn substitution for aa 585-623 (PLD1b). Caspase cleavage of PLD1a at Gln545-Ser546 generates a 62 kDa N-terminal, and a 61 kDa C-terminal fragment. Over aa 1-140, human PLD1a shares 91% aa identity with mouse PLD1a.

PRODUCT SPECIFIC NOTICES

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