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Datasheet for ABIN7159838
anti-PLD6 antibody (AA 1-252) (Biotin)

Overview

Quantity:	100 µg
Target:	PLD6
Binding Specificity:	AA 1-252
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLD6 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Mitochondrial cardiolipin hydrolase protein (1-252AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PLD6
Alternative Name:	PLD6 (PLD6 Products)
Background:	Background: Endonuclease that plays a critical role in PIWI-interacting RNA (piRNA) biogenesis during spermatogenesis. piRNAs provide essential protection against the activity of mobile

Target Details

genetic elements (By similarity). piRNA-mediated transposon silencing is thus critical for maintaining genome stability, in particular in germline cells when transposons are mobilized as a consequence of wide-spread genomic demethylation (By similarity). Has been proposed to act as a cardiolipin hydrolase to generate phosphatidic acid at mitochondrial surface (By similarity). Although it cannot be excluded that it can act as a phospholipase in some circumstances, it should be noted that cardiolipin hydrolase activity is either undetectable in vitro, or very low (PubMed:21397848). In addition, cardiolipin is almost exclusively found on the inner mitochondrial membrane, while PLD6 localizes to the outer mitochondrial membrane, facing the cytosol (PubMed:21397848). Has been shown to be a backbone-non-specific, single strand-specific nuclease, cleaving either RNA or DNA substrates with similar affinity. Produces 5' phosphate and 3' hydroxyl termini, suggesting it could directly participate in the processing of primary piRNA transcripts (By similarity). Also acts as a regulator of mitochondrial shape through facilitating mitochondrial fusion (PubMed:17028579, PubMed:26711011).

Aliases: Choline phosphatase 6 antibody, Mitochondrial cardiolipin hydrolase antibody, Mitochondrial phospholipase antibody, MitoPLD antibody, Phosphatidylcholine hydrolyzing phospholipase D6 antibody, Phosphatidylcholine-hydrolyzing phospholipase D6 antibody, Phospholipase D family member 6 antibody, Phospholipase D6 antibody, PLD 6 antibody, pld6 antibody, PLD6_HUMAN antibody, Protein zucchini homolog antibody, ZUC antibody, Zucchini, Drosophila, homolog of antibody

UniProt: [Q8N2A8](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.