

Product datasheet for **AP05213PU-N**

PLPP6 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1:400 - 1:800. Positive Control: Testis.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from human phosphatidic acid phosphatase type 2 domain containing 2 (PPAPDC2)
Specificity:	This antibody reacts to Phosphatidic Acid Phosphatase Domain Containing 2 (PPAPDC2).
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Ship on gel ice. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	phospholipid phosphatase 6
Database Link:	Entrez Gene 403313 Human Q8IY26



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Background:

Upon cell activation Presqualene diphosphate (PSDP)², a bioactive lipid, rapidly remodels to presqualene monophosphate (PSMP). A newly identified and characterized phosphatase (phosphatidic acid phosphatase domain containing 2 (PPAPDC2)) has recently been shown to convert PSDP to PSMP. Unlike the related polyisoprenyl phosphate farnesyl diphosphate (FDP), PSDP has been shown not to be a substrate for type 2 lipid phosphate phosphohydrolases. PSDP phosphatase activity has been identified in activated human neutrophil (PMN) extracts. Recombinant PPAPDC2 displays diphosphate phosphatase activity with substrate preference for PSDP > FDP phosphatidic acid. PPAPDC2 activity is independent of Mg²⁺ and optimal at pH 7.0 - 8.0. PPAPDC2 mRNA has been detected in human PMN, and is widely expressed in human tissues. PPAPDC2 expressed in human PMN is first lipid phosphate phosphohydrolase identified for PSDP. The regulation of this enzymes activity has important implications for PMN activation in innate immunity.

Synonyms:

Presqualene diphosphate phosphatase