

Product datasheet for **AP05177PU-N**

AGPAT2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 5-10 µg/ml. Enzyme Immunoassay. <i>Positive Control:</i> Human Brain Lysate.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the LPAAT-beta protein.
Specificity:	This antibody detects Lysophosphatidic Acid Acetyltransferase beta.
Formulation:	Phosphate buffered saline with 0.08% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Ship on dry ice. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	1-acylglycerol-3-phosphate O-acyltransferase 2
Database Link:	Entrez Gene 10555 Human O15120



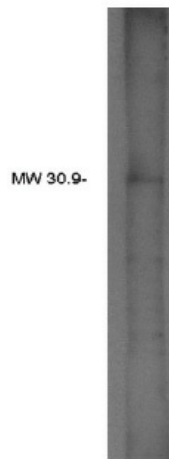
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Background:

Lysophospholipid Acyltransferases (LPLATs) catalyse the addition of fatty acyl moieties to the glycerol backbone of lysophospholipids. In addition to playing a crucial role in the synthesis of structural membrane components the LPLATs are also implicated in cellular signalling responses for cytokines, growth factors and other agonists. Cellular signalling through the interleukin 1 receptor in human mesangial cells and EL-4 cells proceeds by the activation of lysophosphatidic acid acyltransferase (LPAAT). Activation of LPAAT by interleukin 1 results in the generation of unsaturated phosphatidic acid species, that are crucial to the generation of diacylglycerol and interleukin 1 signalling. LPLATs are also involved in signalling for increased interleukin 2 synthesis through the T cell antigen receptor. Activation of T-cells via anti-CD3 stimulation has been shown to increase incorporation of polyunsaturated fatty acids into phosphatidylcholine via lysophosphatidylcholine acyltransferase. Activation of this enzyme is essential for the sustained activation and translocation of protein kinase C.

Synonyms:

1-AGP acyltransferase 2, LPAAT-beta

Product images:

Western blot analysis using LPAAT-beta antibody on Human brain lysate.