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Agpat2 Rabbit pAb

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Catalog # AP58265

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O15120
Predicted	Rat, Pig, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30914
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LPAAB
Epitope Specificity	121-220/278
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein
DISEASE	Defects in AGPAT2 are the cause of congenital generalized lipodystrophy type 1 (CGL1) [MIM:608594]; also known as Berardinelli-Seip congenital lipodystrophy type 1 (BSCL1) or Berardinelli-Seip syndrome. CGL1 is an autosomal recessive disorder characterized by marked paucity of adipose tissue, extreme insulin resistance, hypertriglyceridemia, hepatic steatosis and early onset of diabetes.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Agpat2 is a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. It is located within the endoplasmic reticulum membrane and converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. Mutations in its have been associated with congenital generalized lipodystrophy (CGL), or Berardinelli-Seip syndrome, a disease characterized by a near absence of adipose tissue and severe insulin resistance. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

Additional Information

Gene ID	10555
Other Names	1-acyl-sn-glycerol-3-phosphate acyltransferase beta, 2.3.1.51, 1-acylglycerol-3-phosphate O-acyltransferase 2, 1-AGP acyltransferase 2, 1-AGPAT 2, Lysophosphatidic acid acyltransferase beta, LPAAT-beta, AGPAT2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	AGPAT2
Function	Converts 1-acyl-sn-glycerol-3-phosphate (lysophosphatidic acid or LPA) into 1,2-diacyl-sn-glycerol-3-phosphate (phosphatidic acid or PA) by incorporating an acyl moiety at the sn-2 position of the glycerol backbone.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed predominantly in adipose tissue, pancreas and liver.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.