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LENG4 Rabbit pAb

Catalog # AP97625

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96N66
Other Accession	Q96N66
Predicted	Rat, Human, Mouse, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52765
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LENG4
Epitope Specificity	251-350/472
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the membrane-bound acyltransferase family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the membrane-bound O-acyltransferases family of integral membrane proteins that have acyltransferase activity. The encoded protein is a lysophosphatidylinositol acyltransferase that has specificity for arachidonoyl-CoA as an acyl donor. This protein is involved in the reacylation of phospholipids as part of the phospholipid remodeling pathway known as the Land cycle. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2009]

Additional Information

Gene ID	79143
Other Names	BB1; LENG4; LPIAT; LPIAT1; LPLAT; LPLAT11; LRC4; MBOA7; MRT57; OACT7; hMBOA-7; 5730589L02Rik; LPLAT 7; m-mboa-7; MBOA7_HUMAN; MBOAT7; 1-acylglycerophosphatidylinositol O-acyltransferase; Bladder and breast carcinoma-overexpressed gene 1 protein; Leukocyte receptor cluster member 4; Lysophosphatidylinositol acyltransferase (LPIAT | Lyso-PI acyltransferase); Lysophospholipid acyltransferase 7 (LPLAT 7); Membrane-bound O-acyltransferase domain-containing protein 7 (O-acyltransferase domain-containing protein 7 | h-mboa-7); 2.3.1.-; MBOA7_MOUSE; Lysophosphatidylinositol acyltransferase 1 (LPIAT1); Membrane-bound O-acyltransferase domain-containing protein 7 (O-acyltransferase domain-containing protein 7 | m-mboa-7); membrane bound acylglycerophosphatidylinositol O-acyltransferase MBOAT7; leukocyte receptor cluster (LRC) member 4; membrane bound O-acyltransferase domain containing 7; lysophospholipid acyltransferase 7; lysophospholipid acyltransferase 11; lysophosphatidylinositol acyltransferase;

	lysophosphatidylinositol acyltransferase 1; Bladder and breast carcinoma-overexpressed gene 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	MBOAT7 (HGNC:15505)
Synonyms	BB1, LENG4, OACT7
Function	Acyltransferase which catalyzes the transfer of an acyl group from an acyl-CoA to a lysophosphatidylinositol (1- acylglycerophosphatidylinositol or LPI) leading to the production of a phosphatidylinositol (1,2-diacyl-sn-glycero-3-phosphoinositol or PI) and participates in the reacylation step of the phospholipid remodeling pathway also known as the Lands cycle (PubMed:18094042, PubMed:18772128). Prefers arachidonoyl-CoA as the acyl donor, thus contributing to the regulation of free levels arachidonic acid in cell (PubMed:18094042, PubMed:18772128). In liver, participates in the regulation of triglyceride metabolism through the phosphatidylinositol acyl-chain remodeling regulation (PubMed:32253259).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localized in specific membrane structures termed mitochondria-associated membranes (MAMs) which connect the endoplasmic reticulum (ER) and the mitochondria.
Tissue Location	Overexpressed in metastatic breast and bladder carcinomas relative to normal breast epithelium and urothelium

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