产品名称：LPCAT2 Rabbit Polyclonal Antibody
产品货号：APRab13389

产品概述（Summary）

产品名称（Production Name）	LPCAT2 Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,IHC
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Unmodified
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	LPCAT2
别名（Alternative Names）	LPCAT2; AYTL1; Lysophosphatidylcholine acyltransferase 2; LPC acyltransferase 2; LPCAT-2; LysoPC acyltransferase 2; 1-acylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; Acetyl-CoA:lyso-platelet-ac
基因 ID（Gene ID）	54947.0
蛋白 ID（SwissProt ID）	Q7L5N7.The antiserum was produced against synthesized peptide derived from human LPCAT2. AA range:321-370

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,IHC 1:50-1:300

产品名称：LPCAT2 Rabbit Polyclonal Antibody
产品货号：APRab13389

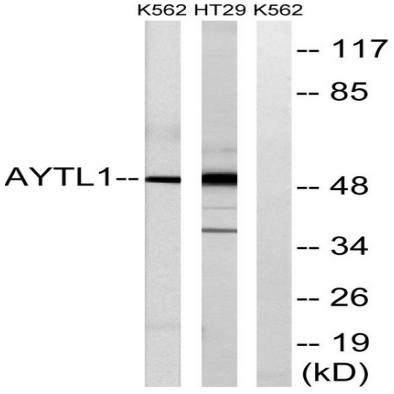
蛋白分子量（Molecular Weight） 50kDa

研究背景（Background）

This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi. [provided by RefSeq, Feb 2009],catalytic activity:Acetyl-CoA + 1-alkyl-sn-glycero-3-phosphocholine = CoA + 2-acetyl-1-alkyl-sn-glycero-3-phosphocholine.,catalytic activity:Acyl-CoA + 1-acyl-sn-glycero-3-phosphocholine = CoA + 1,2-diacyl-sn-glycero-3-phosphocholine.,domain:The HXXXXD motif is essential for acyltransferase activity.,enzyme regulation:Acetyltransferase activity is increased following acute inflammatory stimulation by lipopolysaccharide (LPS). Acyltransferase activity is unchanged.,function:Possesses both acyltransferase and acetyltransferase activities. Activity is calcium-dependent. Involved in platelet-activating factor (PAF) biosynthesis by catalyzing the conversion of the PAF precursor, 1-O-alkyl-sn-glycero-3-phosphocholine (lyso-PAF) into 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine (PAF). Also converts lyso-PAF to 1-alkyl-phosphatidylcholine (PC), a major component of cell membranes and a PAF precursor. Under resting conditions, acyltransferase activity is preferred. Upon acute inflammatory stimulus, acetyltransferase activity is enhanced and PAF synthesis increases.,pathway:Lipid metabolism; phospholipid metabolism.,similarity:Belongs to the 1-acyl-sn-glycerol-3-phosphate acyltransferase family.,similarity:Contains 2 EF-hand domains.,

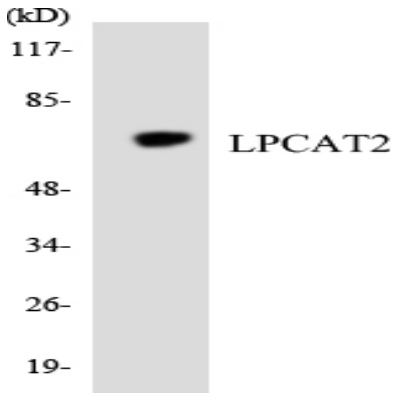
研究领域（Research Area）

图片（Image Data）



Western blot analysis of lysates from K562 and HT-29 cells, using LPCAT2 Antibody. The lane on the right is blocked with the synthesized peptide.

产品名称：LPCAT2 Rabbit Polyclonal Antibody
产品货号：APRab13389



Western blot analysis of the lysates from HT-29 cells using LPCAT2 antibody.

注意事项（Note）

For research use only .