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PLB1 Rabbit pAb

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Catalog # AP58230

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q6P1J6
Predicted	Rat, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	163081
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PLB1
Epitope Specificity	1001-1100/1458
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	Apical cell membrane; Single-pass type I membrane protein. Note: Present in the intestinal brush border membranes.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PLB1 is a membrane-associated phospholipase which exhibits a calcium-independent broad substrate specificity including phospholipase A2/lysophospholipase activity. It shows preferential hydrolysis at the sn-2 position of diacylphospholipids and diacyglycerol, whereas it shows no positional specificity toward triacylglycerol. It also exhibits esterase activity toward p-nitrophenyl. It may act on the brush border membrane to facilitate the absorption of digested lipids.

Additional Information

Gene ID	151056
Other Names	Phospholipase B1, membrane-associated, Phospholipase B, hPLB, Lysophospholipase, 3.1.1.5, PLB1, PLB
Dilution	WB=1:500-2000,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	PLB1
Synonyms	PLB
Function	Calcium-independent membrane-associated phospholipase that catalyzes complete diacylation of phospholipids by hydrolyzing both sn- 1 and sn-2 fatty acyl chains attached to the glycerol backbone (phospholipase B activity) (By similarity). Has dual phospholipase and lysophospholipase activities toward diacylphospholipids. Preferentially cleaves sn-2 ester bonds over sn-1 bonds. Acts as a lipase toward glycerolipid substrates (By similarity). Hydrolyzes fatty acyl chains of diacylglycerols with preference for the sn-2 position and of triacylglycerols with not positional selectivity (By similarity). May also hydrolyze long chain retinyl esters such as retinyl palmitate (By similarity). May contribute to digestion of dietary phospholipids, glycerolipids and retinoids, facilitating lipid absorption at the brush border (By similarity).
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:O54728}; Single-pass type I membrane protein. Note=Present in the intestinal brush border membranes {ECO:0000250|UniProtKB:O54728}
Tissue Location	Expressed in the epidermis (at protein level).

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