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PLLP Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18280a

Product Information

Application	WB, E
Primary Accession	Q9Y342
Other Accession	P47987, Q9DCU2, NP_057077.1
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB38337
Calculated MW	19987
Antigen Region	1-30

Additional Information

Gene ID	51090
Other Names	Plasmolipin, Plasma membrane proteolipid, PLLP, PMLP, TM4SF11
Target/Specificity	This PLLP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PLLP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLLP Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PLLP (HGNC:18553)
Synonyms	PMLP, TM4SF11
Function	Main component of the myelin sheath that plays an important role in

	myelin membrane biogenesis and myelination (PubMed:26002055). Plays an essential function in apical endocytosis. Regulates epithelial development through the regulation of apical endocytosis (By similarity). Part of the intracellular machinery that mediates basolateral-to-apical transport of ICAM-1, an essential adhesion receptor in epithelial cells, from the subapical compartment in hepatic epithelial cells (PubMed:34999972).
Cellular Location	Cell membrane; Multi-pass membrane protein. Myelin membrane; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:P47987}; Multi-pass membrane protein. Golgi apparatus. Note=In polarized cells, localized predominantly in the apical membrane (By similarity). Located in lipid raft (By similarity). Recycled between the plasma membrane and the Golgi complex (PubMed:26002055). PLLP is continuously recirculating in the cell (PubMed:26002055). {ECO:0000250|UniProtKB:A3KQ86, ECO:0000250|UniProtKB:P47987, ECO:0000269|PubMed:26002055}

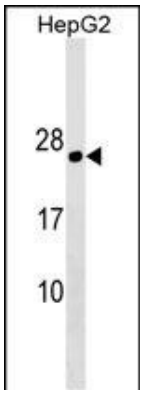
Background

PLLP appears to be involved in myelination. Could also participate in ion transport events as addition of plasmolipin to lipid bilayers induces the formation of ion channels, which are voltage-dependent and K(+)-selective (By similarity).

References

Lamesch, P., et al. Genomics 89(3):307-315(2007)
Hamacher, M., et al. Mamm. Genome 12(12):933-937(2001)
Fischer, I., et al. J. Biol. Chem. 269(40):24912-24919(1994)

Images



PLLP Antibody (N-term) (Cat. #AP18280a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the PLLP antibody detected the PLLP protein (arrow).