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CLN5 Polyclonal Antibody

Catalog # AP69159

Product Information

Application	WB, E
Primary Accession	O75503
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41497

Additional Information

Gene ID	1203
Other Names	CLN5; Ceroid-lipofuscinosis neuronal protein 5; Protein CLN5
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

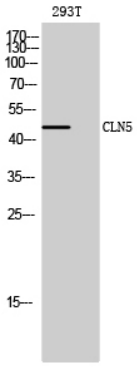
Name	CLN5
Synonyms	BMPS {ECO:0000303|PubMed:37708259}
Function	[Bis(monoacylglycero)phosphate synthase CLN5, secreted form]: Catalyzes the synthesis of bis(monoacylglycero)phosphate (BMP) via transacylation of 2 molecules of lysophosphatidylglycerol (LPG) (PubMed:37708259). BMP also known as lysobisphosphatidic acid plays a key role in the formation of intraluminal vesicles and in maintaining intracellular cholesterol homeostasis (PubMed:37708259). Can use only LPG as the exclusive lysophospholipid acyl donor for base exchange and displays BMP synthase activity towards various LPGs (LPG 14:0, LPG 16:0, LPG 18:0, LPG 18:1) with a higher preference for longer chain lengths (PubMed:37708259). Plays a role in influencing the retrograde trafficking of lysosomal sorting receptors SORT1 and IGF2R from the endosomes to the trans-Golgi network by controlling the recruitment of retromer complex to the endosomal membrane (PubMed:22431521). Regulates the localization and activation of RAB7A which is required to recruit the retromer complex to the endosomal membrane (PubMed:22431521).
Cellular Location	[Bis(monoacylglycero)phosphate synthase CLN5, secreted form]: Lysosome

Tissue Location Ubiquitous..

Background

Plays a role in influencing the retrograde trafficking of lysosomal sorting receptors SORT1 and IGF2R from the endosomes to the trans-Golgi network by controlling the recruitment of retromer complex to the endosomal membrane. Regulates the localization and activation of RAB7A which is required to recruit the retromer complex to the endosomal membrane (PubMed:22431521).

Images



Western Blot analysis of 293T cells using CLN5 Polyclonal Antibody diluted at 1：1000

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