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Anti-CLN5 Antibody

Catalog # AP60443

Product Information

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

Additional Information

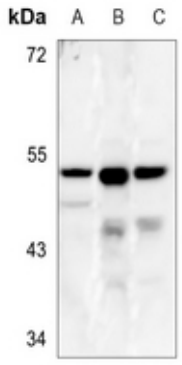
Gene ID	1203
Other Names	Ceroid-lipofuscinosis neuronal protein 5; Protein CLN5
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CLN5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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..

Images



Western blot analysis of CLN5 expression in A375 (A), mouse brain (B), rat brain (C) whole cell lysates.
(Predicted band size: 41 kD; Observed band size: 50 kD)

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