

Anti-CLN5 Antibody

Rabbit polyclonal antibody to CLN5 Catalog # AP60443

Specification

Anti-CLN5 Antibody - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Calculated MW

WB
075503
03UMW8
Human, Mouse, Rat, Bovine, SARS
Rabbit
Polyclonal
41497

Anti-CLN5 Antibody - 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 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-CLN5 Antibody - 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

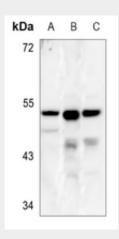
Ubiquitous..

Anti-CLN5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-CLN5 Antibody - Images



Western blot analysis of CLN5 expression in A375 (A), mouse brain (B), rat brain (C) whole cell lysates.

Anti-CLN5 Antibody - Background

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