

**CLN5 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8914a****Specification**

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**CLN5 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O75503](#)**CLN5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1203**Other Names**

Ceroid-lipofuscinosis neuronal protein 5, Protein CLN5, CLN5

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8914a](/products/AP8914a) was selected from the N-term region of human CLN5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CLN5 Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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:<a href="http://www.uniprot.org/citations/22431521" target="\_blank">22431521</a>). Regulates the localization and activation of RAB7A which is required to recruit the retromer complex to the endosomal membrane (PubMed:<a href="http://www.uniprot.org/citations/22431521" target="\_blank">22431521</a>).

**Cellular Location**

[Bis(monoacylglycero)phosphate synthase CLN5, secreted form]: Lysosome

**Tissue Location**

Ubiquitous..

**CLN5 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**CLN5 Antibody (N-term) Blocking Peptide - Images****CLN5 Antibody (N-term) Blocking Peptide - Background**

CLN5 responsible likely is involved in the degradation of post-translationally modified proteins in lysosomes.

**CLN5 Antibody (N-term) Blocking Peptide - References**

Savukoski,M., et.al., Am. J. Hum. Genet. 55 (4), 695-701 (1994) Mole,S.E., et.al., Hum. Mutat. 14 (3), 199-215 (1999)