

**ORMDL3 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10739c****Specification**

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**ORMDL3 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q8N138](#)**ORMDL3 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 94103**Other Names**

ORM1-like protein 3, ORMDL3

**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.

**ORMDL3 Antibody (Center) Blocking peptide - Protein Information****Name** ORMDL3**Function**

Plays an essential role in the homeostatic regulation of sphingolipid de novo biosynthesis by modulating the activity of the serine palmitoyltransferase (SPT) in response to ceramide levels (PubMed:<a href="http://www.uniprot.org/citations/20182505" target="\_blank">20182505</a>, PubMed:<a href="http://www.uniprot.org/citations/30700557" target="\_blank">30700557</a>, PubMed:<a href="http://www.uniprot.org/citations/37308477" target="\_blank">37308477</a>). When complexed to SPT, the binding of ceramides to its N-terminus stabilizes a conformation that block SPT substrate entry, hence preventing SPT catalytic activity. Through this mechanism, maintains ceramide levels at sufficient concentrations for the production of complex sphingolipids, but which prevents the accumulation of ceramides to levels that trigger apoptosis (PubMed:<a href="http://www.uniprot.org/citations/37308477" target="\_blank">37308477</a>).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein

**Tissue Location**

Widely expressed. Expressed in adult and fetal heart, brain, lung, liver, skeletal muscle and kidney. Expressed in adult pancreas and placenta and in fetal spleen and thymus

**ORMDL3 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**ORMDL3 Antibody (Center) Blocking peptide - Images****ORMDL3 Antibody (Center) Blocking peptide - Background**

Negative regulator of sphingolipid synthesis. May indirectly regulate endoplasmic reticulum-mediated Ca(+2) signaling.

**ORMDL3 Antibody (Center) Blocking peptide - References**

Fransen, K., et al. Hum. Mol. Genet. 19(17):3482-3488(2010)Liu, X., et al. Nat. Genet. 42(8):658-660(2010)Halapi, E., et al. Eur. J. Hum. Genet. 18(8):902-908(2010)Dobbins, S.E., et al. Int. J. Cancer (2010) In press :McGovern, D.P., et al. Nat. Genet. 42(4):332-337(2010)