

**Phospho-GABARAPL2(S39) Antibody Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP3794a****Specification**

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**Phospho-GABARAPL2(S39) Antibody Blocking peptide - Product Information**Primary Accession [P60520](#)**Phospho-GABARAPL2(S39) Antibody Blocking peptide - Additional Information**

Gene ID 11345

**Other Names**

Gamma-aminobutyric acid receptor-associated protein-like 2, GABA(A) receptor-associated protein-like 2, Ganglioside expression factor 2, GEF-2, General protein transport factor p16, Golgi-associated ATPase enhancer of 16 kDa, GATE-16, MAP1 light chain 3-related protein, GABARAPL2, FLC3A, GEF2

**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.

**Phospho-GABARAPL2(S39) Antibody Blocking peptide - Protein Information**Name GABARAPL2 ([HGNC:13291](#))

Synonyms FLC3A, GEF2

**Function**

Ubiquitin-like modifier involved in intra-Golgi traffic (By similarity). Modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation (By similarity). It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1 (By similarity). Involved in autophagy (PubMed: [20418806](http://www.uniprot.org/citations/20418806), PubMed: [23209295](http://www.uniprot.org/citations/23209295)). Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production (PubMed: [20418806](http://www.uniprot.org/citations/20418806), PubMed: [23209295](http://www.uniprot.org/citations/23209295)). Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed: [20418806](http://www.uniprot.org/citations/20418806), PubMed: [20418806](http://www.uniprot.org/citations/20418806), PubMed: [20418806](http://www.uniprot.org/citations/20418806)).

href="http://www.uniprot.org/citations/23209295" target="\_blank">23209295</a>).

**Cellular Location**

Cytoplasmic vesicle, autophagosome. Endoplasmic reticulum membrane. Golgi apparatus {ECO:0000250|UniProtKB:P60519}

**Tissue Location**

Ubiquitous. Expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. Expressed at very low levels in lung, thymus and small intestine

**Phospho-GABARAPL2(S39) Antibody Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Phospho-GABARAPL2(S39) Antibody Blocking peptide - Images****Phospho-GABARAPL2(S39) Antibody Blocking peptide - Background**

Involved in intra-Golgi traffic. Modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1 (By similarity).

**Phospho-GABARAPL2(S39) Antibody Blocking peptide - References**

Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010)  
:Dastani, Z., et al. Eur. J. Hum. Genet. 18(3):342-347(2010)Thielmann, Y., et al. Proteins 77(3):637-646(2009)Kirkin, V., et al. Mol. Cell 33(4):505-516(2009)Shvets, E., et al. Autophagy 4(8):1054-1056(2008)