

**GATE16 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16026a****Specification**

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**GATE16 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P60520</a>
Other Accession	<a href="#">P60522</a> , <a href="#">P60521</a> , <a href="#">P60519</a> , <a href="#">NP_009216.1</a>
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	13667
Antigen Region	1-28

**GATE16 Antibody (N-term) - 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

**Target/Specificity**

This GATE16 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-28 amino acids from the N-terminal region of human GATE16.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GATE16 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GATE16 Antibody (N-term) - 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](#), PubMed:[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](#), PubMed:[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](#), PubMed:[23209295](#)).

#### Cellular Location

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

#### Tissue Location

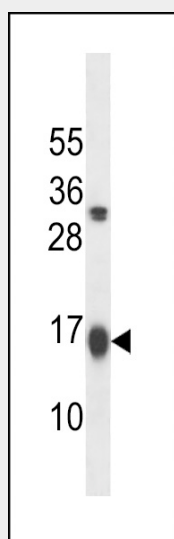
Ubiquitous. Expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. Expressed at very low levels in lung, thymus and small intestine

### GATE16 Antibody (N-term) - Protocols

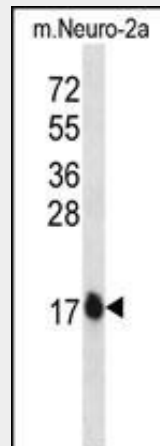
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GATE16 Antibody (N-term) - Images



GATE16 Antibody (N-term) (Cat. #AP16026a) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the GATE16 antibody detected the GATE16 protein (arrow).



GATE16 Antibody (N-term) (Cat. #AP16026a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the GATE16 antibody detected the GATE16 protein (arrow).

#### **GATE16 Antibody (N-term) - 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).

#### **GATE16 Antibody (N-term) - 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)