

**GABARAPL2 Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1822d**

**Specification**

---

**GABARAPL2 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>WB, IHC-P, FC,E</b> |
| Primary Accession | <a href="#">P60520</a> |
| Reactivity        | <b>Mouse</b>           |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Isotype           | <b>Rabbit IgG</b>      |

**GABARAPL2 Antibody - 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 GABARAPL2 antibody is generated from rabbits immunized with human GABARAPL2 recombinant protein.

**Dilution**

WB~~1:500  
IHC-P~~1:50~100  
FC~~1:10~50

**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**

GABARAPL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GABARAPL2 Antibody - 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

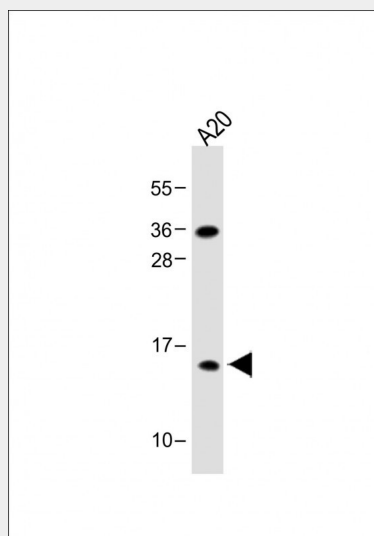
Ubiquitous. Expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. Expressed at very low levels in lung, thymus and small intestine

## GABARAPL2 Antibody - Protocols

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

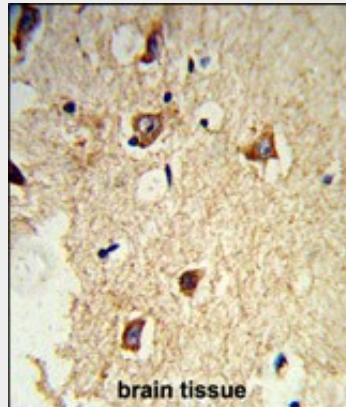
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GABARAPL2 Antibody - Images

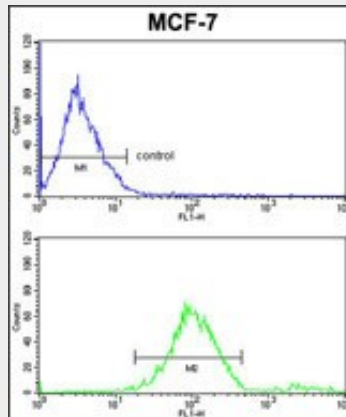


Anti-GABARAPL2 Antibody at 1:500 dilution + A20 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted

band size : 14 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded mouse brain tissue reacted with GABARAPL2 Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



GABARAPL2 Antibody (Cat.#AP1822d) FC analysis of MCF-7 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### GABARAPL2 Antibody - Background

Membrane proteins located on vesicles (v-SNAREs) and on the target membrane (t-SNAREs) mediate specific recognition and, possibly, fusion between a transport vesicle and its target membrane. The activity of SNARE molecules is regulated by several soluble cytosolic proteins. We have cloned a bovine brain cDNA encoding a conserved 117 amino acid polypeptide, denoted Golgi-associated ATPase Enhancer of 16 kDa (GATE-16), that functions as a soluble transport factor. GATE-16 interacts with N-ethylmaleimidesensitive factor (NSF) and significantly stimulates its ATPase activity. It also interacts with the Golgi v-SNARE GOS-28 in an NSF-dependent manner. We propose that GATE-16 modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation.

### GABARAPL2 Antibody - References

- Sou, Y.S., J. Biol. Chem. 281 (6), 3017-3024 (2006)
- Mehrle, A., Nucleic Acids Res. 34 (DATABASE ISSUE), D415-D418 (2006)
- Wiemann, S., Genome Res. 14 (10B), 2136-2144 (2004)
- Sagiv, Y., EMBO J. 19 (7), 1494-1504 (2000)

### GABARAPL2 Antibody - Citations

- [Lentiviral-Mediated shRNA Approaches: Applications in Cellular Differentiation and Autophagy.](#)
- [Haploinsufficiency networks identify targetable patterns of allelic deficiency in low mutation ovarian cancer.](#)
- [Induction of autophagy is a key component of all-trans-retinoic acid-induced differentiation in leukemia cells and a potential target for pharmacologic modulation.](#)