

Datasheet for 600-401-BJ1**GABARAPL2 Antibody****Overview**

Description:	Anti-GABARAPL2 (RABBIT) Antibody - 600-401-BJ1
Item No.:	600-401-BJ1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Gamma-aminobutyric acid (GABA) is the main inhibitory transmitter by increasing a Cl ⁻ conductance that inhibits neuronal firing in the central nervous system (1). It has been shown to activate both ionotropic (GABAA) and metabotropic (GABAB) receptors as well as a third class of receptors called GABAC (2). GABARAPL2 (GABAA receptor-associated protein-like 2), also known as GATE16, was initially identified as a membrane transport modulator and is a mammalian ortholog to the autophagy protein ATG8 (3,4). It is thought that GABARAPL2 and other members of the ATG8 family act as scaffolds for assembly of the Unc-51 like kinase (ULK) complex in the formation of autophagosomes (5).
Synonyms:	GABARAPL2 Antibody, ATG8, GEF2, ATG8C, GEF-2, GATE16, GATE-16, FLC3A, Gamma-aminobutyric acid receptor-associated protein-like 2, Ganglioside expression factor 2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GABARAPL2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-GABARAPL2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the C-terminus of human GABARAPL2.

Purity/Specificity: Anti-GABARAPL2 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. GABARAPL2 antibody is human, mouse and rat reactive. Multiple isoforms of GABARAPL2 are known to exist.

Relevant Links:

- [UniProtKB - P60520](#)
- [GeneID - 11345](#)
- [NCBI - NP_009216](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-GABARAPL2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 14 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

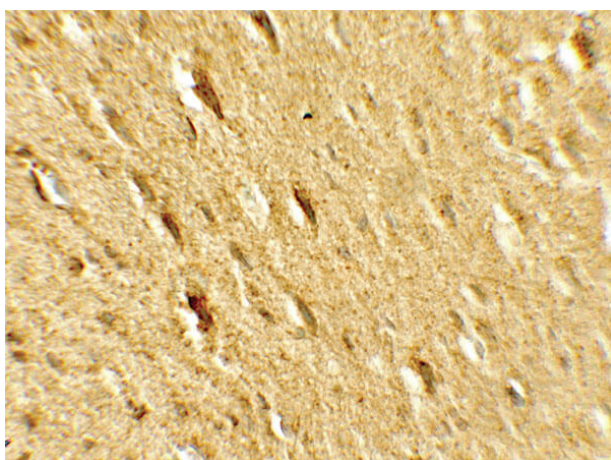
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

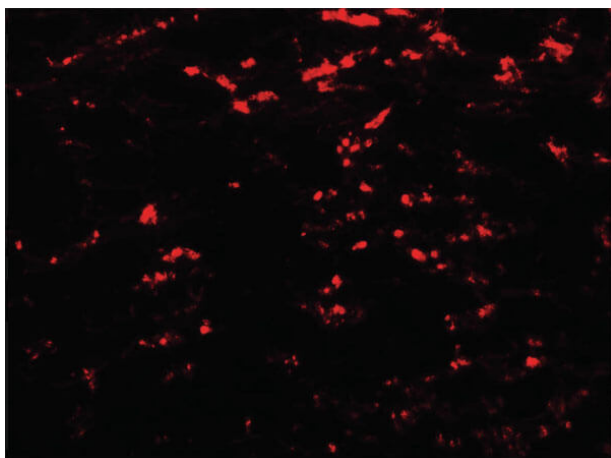
Expiration: Expiration date is one (1) year from date of receipt.

Images



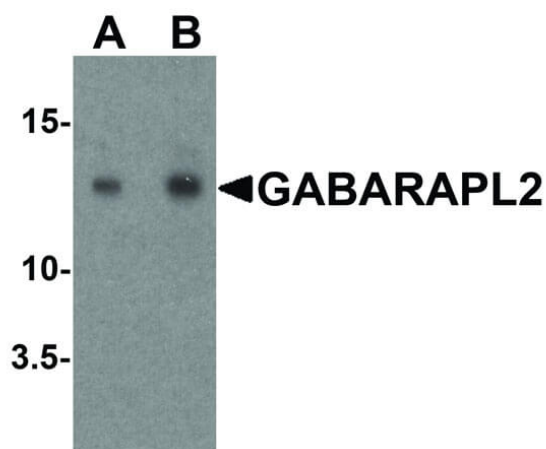
Immunohistochemistry

Immunohistochemistry of Rabbit anti-GABARAPL2 antibody. Tissue: rat brain. Primary antibody: GABARAPL2 antibody at 5 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: GABARAPL2 is located on the Golgi apparatus and cytoplasmic vesicle. Staining: GABARAPL2 as precipitated brown signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Rabbit anti-GABARAPL2 antibody. Tissue: rat brain. Primary antibody: GABARAPL2 antibody at 20 µg/mL. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: GABARAPL2 is located on the Golgi apparatus and cytoplasmic vesicle. Staining: GABARAPL2 as red fluorescent signal.

**Western Blot**

Western Blot of Rabbit anti-GABARAPL2 antibody. Lane A: human brain tissue lysate at 1 µg/mL. Lane B: human brain tissue lysate at 2 µg/mL. Primary antibody: GABARAPL2 antibody overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 13 kDa, 13 kDa for GABARAPL2.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.