

Datasheet for ABIN2868952

anti-GABARAPL1 antibody (C-Term) (PE)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	GABARAPL1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABARAPL1 antibody is conjugated to PE
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Synthetic peptide from the C-terminal of human GABARAPL1
Specificity:	Detects ~14-16 kDa. Other observed bands at ~32 kDa.
Cross-Reactivity:	Human, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	GABARAPL1
Alternative Name:	GABARAPL1 (GABARAPL1 Products)
Background:	GABARAPL1, one of the proteins belonging to the GABARAP (GABA(A) receptor-associated protein) family, is highly expressed in the central nervous system and implicated in processes

Target Details

such as receptor and vesicle transport as well as autophagy. The proteins that make up the GABARAP family demonstrate conservation of their amino acid sequences and protein structures. In humans, GABARAPL1 shares 86 % identity with GABARAP and 61 % with GABARAPL2 (GATE-16) (1). GABARAPL1, or GABA(A) Receptor-Associated Protein Like 1, is a ubiquitin-like modifier that increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor. Involved in formation of autophagosomal vacuoles. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (2).

Gene ID: 23710

NCBI Accession: [NP_113600](#)

UniProt: [Q9H0R8](#)

Pathways: [Autophagy](#)

Application Details

Application Notes:

- WB (1:1000)
- ICC/IF (1:100)
- optimal dilutions for assays should be determined by the user.

Comment: A 1:1000 dilution of ABIN2868952 was sufficient for detection of GABARAPL1 on rat liver lysates using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

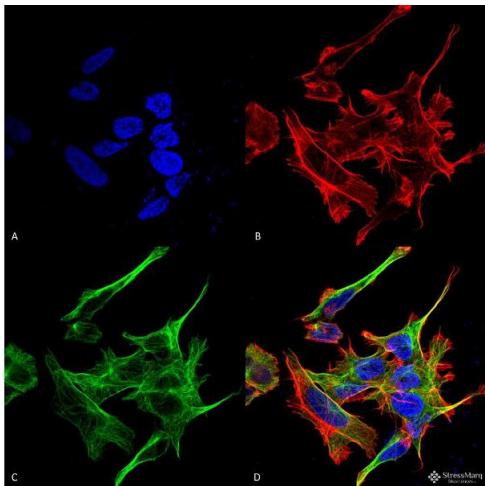
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

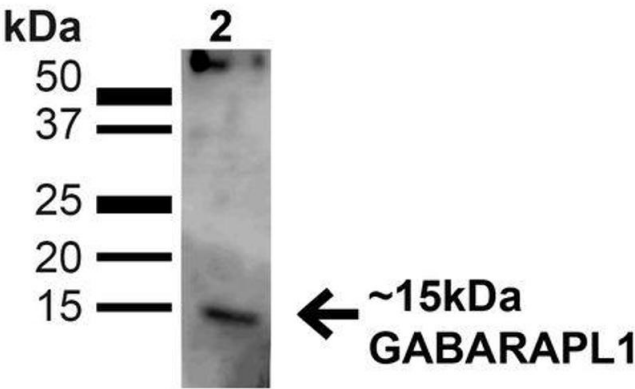
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



Immunofluorescence (fixed cells)

Image 1. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-GABARAPL1 Polyclonal Antibody . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-GABARAPL1 Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Cytoskeleton. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABARAPL1 Antibody (D) Composite.



Western Blotting

Image 2. Western blot analysis of Human HeLa cell lysates showing detection of ~14kDa GABARAPL1 protein using Rabbit Anti-GABARAPL1 Polyclonal Antibody . Lane 1: MW Ladder. Lane 2: Human HeLa (20 µg). Load: 20 µg. Block: 5% milk + TBST for 1 hour at RT. Primary Antibody: Rabbit Anti-GABARAPL1 Polyclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Rabbit: HRP at 1:2000 for 1 hour at RT. Color Development: TMB solution for 12 min at RT. Predicted/Observed Size: ~14kDa.