

Rabbit GABARAPL2 Polyclonal Antibody | anti-GABARAPL2 antibody

GABARAPL2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322754	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GABARAPL2; Polyclonal Antibody; GABARAPL2 Antibody; ATG8; ATG8C; FLC3A; GABA(A) receptor-associated protein-like 2; Gabarapl2; Gamma-aminobutyric acid receptor-associated protein-like 2; Ganglioside expression factor 2; GATE-16; GATE16; GBRL2_HUMAN; GEF-2; GEF2; General protein transport factor p16; Golgi-associated ATPase enhancer of 16 kDa; MAP1 light chain 3-related protein; anti-GABARAPL2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GABARAPL2 antibody detects endogenous levels of total GABARAPL2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	117
Applicable Applications for anti-GABARAPL2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GABARAPL2
Subcellular Location	Golgi Apparatus.
Tissue Specificity	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.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
AAA322754 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis GABARAPL2 using HepG2 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-GABARAPL2 antibody	Function: Ubiquitin-like modifier 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). Involved in autophagy. 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. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation. Subunit Structure: Monomer. Interacts with GABRG2, NSF, GOSR1 and beta-tubulin (By similarity). Interacts with ATG3, ATG7, ATG13 and ULK1. Interacts with TP53INP1 and TP53INP2. Interacts with TBC1D25. Directly interacts with SQSTM1 and BNIP3. Interacts with TECPR2 and PCM1. Interacts with TBC1D5 (PubMed:22354992). Interacts with TRIM5 (PubMed:25127057). Interacts with MEFV and TRIM21 (PubMed:26347139). Interacts with WDFY3 (PubMed:24668264). Post-translational Modifications: The precursor molecule is cleaved by ATG4B to form the cytosolic form, GABARAPL2-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, GABARAPL2-II. ATG4B also mediates the delipidation required for GABARAPL1 recycling when autophagosomes fuse with lysosomes. The Legionella effector RavZ is a deconjugating enzyme that produces an ATG8 product that would be resistant to re-conjugation by the host machinery due to the cleavage of the reactive C-terminal glycine. Similarity: Belongs to the ATG8 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6005768
NCBI GeneID	11345
NCBI Accession #	NP_009216.1
NCBI GenBank Nucleotide #	NM_007285.6
UniProt Accession #	P60520; O08765; Q6FG91; Q9DCP8; Q9UQF7
Molecular Weight	Observed: 14 kDa Predicted: 14 kDa
NCBI Official Full Name	gamma-aminobutyric acid receptor-associated protein-like 2
NCBI Official Synonym Full Names	GABA type A receptor associated protein like 2
NCBI Official Symbol	GABARAPL2
NCBI Official Synonym Symbols	ATG8; GEF2; ATG8C; GEF-2; GATE16; GATE-16
NCBI Protein Information	gamma-aminobutyric acid receptor-associated protein-like 2
UniProt Protein Name	Gamma-aminobutyric acid receptor-associated protein-like 2
UniProt Gene Name	GABARAPL2
UniProt Synonym Gene Names	FLC3A; GEF2; GEF-2; GATE-16

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/gabarapl2-antibody-immunohistochemistry-western-blot-elisa/322754>