

GABARAPL1 Rabbit pAb

Catalog # AP98777

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H0R8
Other Accession	Q9H0R8
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14044
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GABARAPL1
Epitope Specificity	41-117/117
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the MAP1 LC3 family.
SUBUNIT	Interacts with GABRG2 and beta-tubulin. Interacts with OPRK1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GABARAPL1 belongs to the MAP1 LC3 family. It increases cell surface expression of kappa type opioid receptor through facilitating anterograde intracellular trafficking of the receptor.

Additional Information

Gene ID	23710
Other Names	GEC-1; GEC1; APG8-LIKE; APG8L; ATG8; ATG8B; ATG8L; 3110025G09Rik; 9130422N19Rik; GECI; MNCb-0091; GBRL1_BOVIN; GABARAPL1; GABA(A) receptor-associated protein-like 1; GBRL1_CAVPO; Glandular epithelial cell protein 1 (GEC-1); GBRL1_HUMAN; Early estrogen-regulated protein; GBRL1_MOUSE; GBRL1_RAT; GABA type A receptor associated protein like 1; GABA(A) receptor-associated protein like 1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GABARAPL1 (HGNC:4068)
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Synonyms	GEC1
Function	Ubiquitin-like modifier that increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor (PubMed: 16431922). Involved in formation of autophagosomal vacuoles (PubMed: 20404487). While LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (PubMed: 20404487). Through its interaction with the reticulophagy receptor TEX264, participates in the remodeling of subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover (PubMed: 31006537 , PubMed: 31006538).
Cellular Location	Cytoplasmic vesicle, autophagosome. Cytoplasmic vesicle membrane; Lipid-anchor. Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:Q0VGK0}. Endoplasmic reticulum {ECO:0000250 UniProtKB:Q0VGK0}. Golgi apparatus {ECO:0000250 UniProtKB:Q0VGK0}
Tissue Location	Ubiquitous. Expressed at very high levels in the brain, heart, peripheral blood leukocytes, liver, kidney, placenta and skeletal muscle. Expressed at very low levels in thymus and small intestine. In the brain, expression is particularly intense in motoneurons in the embryo and in neurons involved in somatomotor and neuroendocrine functions in the adult, particularly in the substantia nigra pars compacta.

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