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# GABARAPL1 Rabbit pAb

Catalog # AP98777

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q9H0R8 |
| **Other Accession** | Q9H0R8 |
| **Reactivity** | Rat |
| **Predicted** | Pig, Human, Mouse, Rabbit, Dog |
| **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

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| **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

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| **Name** | GABARAPL1 ( HGNC:4068) |
| **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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