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GABARAPL1 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9133a

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9H0R8
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22950
Calculated MW	14044

Additional Information

Gene ID	23710
Other Names	Gamma-aminobutyric acid receptor-associated protein-like 1, Early estrogen-regulated protein, GABA(A) receptor-associated protein-like 1, Glandular epithelial cell protein 1, GEC-1, GABARAPL1, GEC1
Target/Specificity	This GABARAPL1 antibody is generated from rabbits immunized with human GABARAPL1 recombinant protein.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GABARAPL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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.

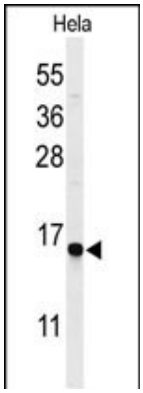
Background

Increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor.

References

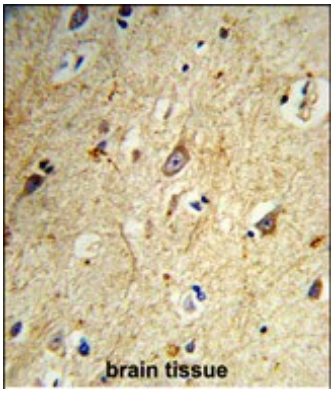
Chen C.,et.al., J. Biol. Chem. 281:7983-7993(2006).
Ebert L., et.al., Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

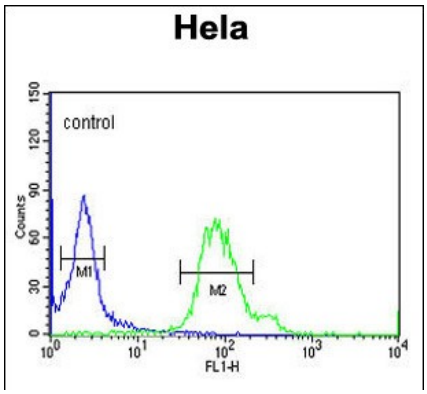
Images



Western blot analysis of GABARAPL1 Antibody (Cat. #AP9133a) in Hela cell line lysates (35ug/lane). GABARAPL1 (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human brain tissue reacted with C10orf120 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.





GABARAPL1 Antibody (Cat. #AP9133a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.