

Recombinant Human GABARAPL2, His-tagged

Cat. No. GABARAPL2-489H Lot. No. (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mature form of human GABARAPL2 (P60520) (Met1-Phe117) was expressed with a polyhistidine tag at the N-terminus.
Species	Human
Source	Human Cells
ProteinLength	1-117 a.a.
Description	GATE-16, also known as ATG8, belongs to the MAP1 LC3 family. It is expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. GATE-16 is expressed at very low levels in lung, thymus and small intestine. GATE-16 is involved in intra-Golgi traffic. It 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.
Predicted N Terminal	His
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant human GABARAPL2 consists of 132 amino acids and predicts a molecular mass of 15.5 KDa. It migrates as an approximately 15 KDa band in SDS-PAGE under reducing conditions.

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Endotoxin	<1.0 eu per ug protein as determined by the lal</1.0
Purity	>95 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	GABARAPL2 GABA(A) receptor-associated protein-like 2 [Homo sapiens]
Official Symbol	GABARAPL2
Synonyms	GABARAPL2; GABA(A) receptor-associated protein-like 2; gamma-aminobutyric acid receptor-associated protein-like 2; ATG8; ATG8C; GATE 16; GATE16; GEF2; ganglioside expression factor 2; MAP1 light chain 3 related protein; MAP1 light chain 3-related protein;
Gene ID	11345
mRNA Refseq	NM_007285
Protein Refseq	NP_009216
MIM	607452
UniProt ID	P60520
Chromosome	16q22.1

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Location	
Pathway	GABAergic synapse, organism-specific biosystem; GABAergic synapse, conserved biosystem; Regulation of autophagy, organism-specific biosystem; Regulation of autophagy, conserved biosystem; Senescence and Autophagy, organism-specific biosystem;
Function	ATPase binding; GABA receptor binding; GABA receptor binding; SNARE binding; beta-tubulin binding; microtubule binding; protein binding;

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