

## Recombinant Human GABA Protein (His & FcTag)

**Catalog No.** PKSH032465

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

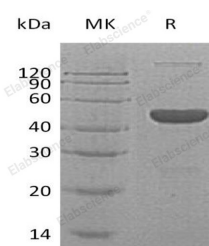
### Description

<b>Synonyms</b>	GABA(A) Receptor-Associated Protein;GABARAP Protein;HCG1987397 Isoform CRA_b;GABARAP
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met1-Leu117
<b>Accession</b>	Q6IAW1
<b>Calculated Molecular Weight</b>	43.2 kDa
<b>Observed molecular weight</b>	50 kDa
<b>Tag</b>	N-His & C-Fc
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 20% Glycerol, pH 7.0.
<b>Reconstitution</b>	Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Gamma-Aminobutyric Acid Receptor-Associated Protein (GABARAP) is a ligand-gated chloride channel protein that mediates inhibitory neurotransmission and belongs to the MAP1 LC3 family. GABARAP is highly positively charged in its N-terminus and shares sequence similarity with light chain-3 of microtubule-associated proteins 1A and 1B. GABARAP clusters neurotransmitter receptors by mediating interaction with the cytoskeleton. Autophagy is the process

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by which cells recycle cytoplasm and dispose of excess or defective organelles. This process is suggested to be involved development; differentiation; growth regulation and tissue remodeling in multicellular organisms. An important inhibitory neurotransmitter; GABA; acts on GABA receptors that are ubiquitously expressed in the CNS. GABARAP has been shown to play a important role in intracellular transport of GABA(A) receptors and its interaction with the cytoskeleton.