

## 32-7124: Recombinant Human GABA(A) Receptor-Associated Protein/GABARAP (N-GST)

**Gene :** GABARAP

**Gene ID :** 11337

**Uniprot ID :** Q6IAW1

### Description

Source: E.coli.

MW :40.21kD.

Recombinant Human GABARAP is produced by our E.coli expression system and the target gene encoding Met1-Lys117 is expressed with a GST tag at the N-terminus. 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 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.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 200mM NaCl, pH 7.5.

**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPYYIDGDVKLTQSMAIIRYIA  
DKHNMLGGCPKERAISMLEGAVLDIRYGVSRAYSKEFETLKVDLFLSKLPEMLKMFEDRLCHKTYLNGDHVTH  
PDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPR  
GSMKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVIVEKAPKARIGDLDDKKKYLVPSDLTVGQFYFLIRKRIHLRAED  
ALFFFVNNVIPPTSATMGQLYQEHHEEDFFLYIAYSDESIVYGL

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.