



[Go to Product page](#)

Datasheet for ABIN1880607

GABARAP Protein (AA 1-116) (His tag,Fc Tag)

Overview

Quantity:	50 µg
Target:	GABARAP
Protein Characteristics:	AA 1-116
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GABARAP protein is labelled with His tag,Fc Tag.

Product Details

Purpose:	Recombinant Human GABA(A) Receptor-Associated Protein/GABARAP (N-6His, C-Fc)
Sequence:	<p>MGSSHHHHHH SSSLVPRGSH MKFVYKEEHP FEKRRSEGEK IRKKYPDRVP VIVEKAPKAR</p> <p>IGDLDDKKKYL VPSDLTVGQF YFLIRKRIHL RAEDALFFV NNVIPPTSAT MGQLYQEHHE</p> <p>EDFFLYIAYS DESVYGLVDD IEGRMDEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD</p> <p>TLMISRTPEV TCVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL</p> <p>HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSREEMT KNQVSLTCLV</p> <p>KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH</p> <p>EALHNHYTQK SLSLSPGK</p>
Characteristics:	Recombinant Recombinant Human GABA(A) receptor-associated protein/GABARAP is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Gln116) of Human GABARAP fused with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	GABARAP
Alternative Name:	GABA(A) Receptor-Associated Protein/GABARAP (GABARAP Products)
Background:	<p>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.</p>
Molecular Weight:	43.2 kDa
UniProt:	Q6IAW1
Pathways:	Autophagy

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM PB,150 mM NaCl,20 % glycerol, pH 7.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months