Datasheet for ABIN1096702

GABARAP Protein (AA 1-117) (GST tag)

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Overview

Quantity:	50 µg
Target:	GABARAP
Protein Characteristics:	AA 1-117
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GABARAP protein is labelled with GST tag.

Product Details

Purpose:	Recombinant Human GABA(A) Receptor-Associated Protein/GABARAP (N-GST)
Sequence:	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPRGSMKFV YKEEHPFEKR RSEGEKIRKK YPDRVPVIVE KAPKARIGDL DKKKYLVPSD LTVGQFYFLI RKRIHLRAED ALFFFVNNVI PPTSATMGQL YQEHHEEDFF LYIAYSDESV YGL
Characteristics:	Recombinant Human GABA(A) Receptor-Associated Protein/GABARAP is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Lys117) of Human GABARAP fused with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

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

Target Details

Target:	GABARAP
Alternative Name:	gabarap (GABARAP Products)
Sub Type:	Fusionprotein
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 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. Alternative Names: GABA(A) Receptor-Associated Protein, GABARAP Protein, HCG1987397 Isoform CRA_b, GABARAP
Molecular Weight:	40.21 kDa
UniProt:	Q6IAW1
Pathways:	Autophagy

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 50 mM TrisHCl, 200 mM NaCl, pH 7.5.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	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.
Expiry Date:	3 months