



Recombinant Protein Technical Manual
Recombinant Human GABA Protein (His & FcTag)
RPES4465

Product Data:

Product SKU: RPES4465

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q6IAW1

Protein Information:

Molecular Mass: 43.2 kDa

AP Molecular Mass: 50 kDa

Tag: N-6His,C-Fc

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB,150mM NaCl,20% glycerol,pH7.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: GABA(A) Receptor-Associated Protein; GABARAP Protein; HCG1987397 Isoform CRA_b; GABARAP

Immunogen Information:

Sequence: Met 1-Gln116

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.