

GABARAP Protein, Human (His, Fc)

Cat. No.:	HY-P72639
Synonyms:	GABA(A) Receptor-Associated Protein; GABARAP Protein; HCG1987397 Isoform CRA_b; GABARAP
Species:	Human
Source:	E. coli
Accession:	Q6IAW1 (M1-L117)
Gene ID:	11337
Molecular Weight:	Approximately 50 kDa

PROPERTIES

AA Sequence	<p>M K F V Y K E E H P F E K R R S E G E K I R K K Y P D R V P V I V E K A P K A R</p> <p>I G D L D K K K Y L V P S D L T V G Q F Y F L I R K R I H L R A E D A L F F F V</p> <p>N N V I P P T S A T M G Q L Y Q E H H E E D F F L Y I A Y S D E S V Y G L</p>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 20% glycerol, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>GABARAP (Gamma-aminobutyric acid receptor-associated protein) is a protein that serves multiple functions within the cell. It acts as a ubiquitin-like modifier, participating in the intracellular transport of GABA(A) receptors and interacting with the cytoskeleton. GABARAP is involved in autophagy, specifically in the later stages of autophagosome maturation. It interacts with the reticulophagy receptor TEX264 to remodel subdomains of the endoplasmic reticulum into autophagosomes, which then merge with lysosomes for turnover of the endoplasmic reticulum. GABARAP is also essential for the local activation of the CUL3(KBTBD6/7) E3 ubiquitin ligase complex, which regulates the ubiquitination and degradation of TIAM1, a guanyl-nucleotide exchange factor. This degradation of TIAM1 affects downstream signal transduction pathways involved in cell migration, proliferation, and cytoskeleton organization. Additionally, GABARAP has been implicated in apoptosis. Overall, GABARAP plays a vital role in various biological processes, including intracellular transport, autophagy, cytoskeleton organization, and cell signaling.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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