abcam

Product datasheet

Recombinant Human GABARAP protein ab151871

Description

Product name	Recombinant Human GABARAP protein
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE. ab151871 was lyophilised from a 0.2 µM filtered solution.
Endotoxin level	< 1.000 Eu/µg
Expression system	Escherichia coli
Accession	Q6IAW1
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVIVEKAPKARI GDLDKKKYL VPSDLTVGQFYFLIRKRIHLRAEDALFFFVNNVIPPTSATMG QLYQEHHE EDFFLYIAYSDESVYGL
Predicted molecular weight	14 kDa
Amino acids	1 to 117
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab151871** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	HPLC SDS-PAGE
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. pH: 7.50

	Constituents: 0.79% Tris HCl, 1.17% Sodium chloride
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilised protein in 1X PBS. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. For long term storage aliquot and store at < -20°C.

General Info

Function	Ubiquitin-like modifier that plays a role in intracellular transport of GABA(A) receptors and its interaction with the cytoskeleton. Involved in apoptosis. Involved in autophagy. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.
Tissue specificity	Heart, brain, placenta, liver, skeletal muscle, kidney and pancreas.
Sequence similarities	Belongs to the ATG8 family.
Post-translational modifications	The precursor molecule is cleaved by ATG4B to form the cytosolic form, GABARAP-I. This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, GABARAP-II.
Cellular localization	Endomembrane system. Cytoplasm, cytoskeleton. Golgi apparatus membrane. Cytoplasmic vesicle, autophagosome. Largely associated with intracellular membrane structures including the Golgi apparatus and postsynaptic cisternae. Colocalizes with microtubules (By similarity). Localizes also to discrete punctae along the ciliary axoneme (By similarity).

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