

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	O95166	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	MKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVMEKAPKARI GDLDKKKYL VPSDLTVGQFYFLIRKRIHLRAEDALFFFVNNVIPPTSATMG QLYQEHHE EDFFLYIAYSDESUYGL	
Predicted molecular weight	14 kDa	
Amino acids	1 to 117	

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
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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).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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