abcam

Product datasheet

Recombinant Human GABARAP protein (Fc Chimera) ab191929

Description

Product name	Recombinant Human GABARAP protein (Fc Chimera)
Purity	> 95 % SDS-PAGE. Purity is greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
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	MGSSHHHHHHSSGLVPRGSHMKFVYKEEHPFEKRRSEG EKIRKKYPDRVP VIVEKAPKARIGDLDKKKYLVPSDLTVGQFYFLIRKRIHLRA EDALFFFV NNVIPPTSATMGQLYQEHHEEDFFLYIAYSDESVYGLVDDI EGRMDEPKS CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEV TCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTV LHQDWLNGKEY KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMT KNQVSLTCLV KGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYS KLTVDKSRWQQ GNVFSCSVMHEALHNHYTQKSLSLSPGK
Predicted molecular weight	43 kDa including tags
Amino acids	1 to 116
Tags	His tag N-Terminus , Fc tag C-Terminus
Additional sequence information	Fused with a FC tag at the C terminus.

Specifications

Our **Abpromise guarantee** covers the use of **ab191929** in the following tested applications.

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

Applications	SDS-PAGE HPLC
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Reconstitute for long term storage. pH: 7.00 Constituents: 20% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, 79% Phosphate Buffer

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).

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors