

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	O95166	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	<p>MGSSHHHHHHSSGLVPRGSHMKFVYKEEHPFEKRRS EGEKIRKKYPDRVP VIVEKAPKARIGDLKKKYLVPDLTVGQFYFLIRKRIHL RAEDALFFFV NNVIPPTSATMGQLYQEHHEEDFFLYAYSDESIVYGLV DDIEGRMDEPKS CDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT PEVTCVVVDVSHE DPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSV LTVLHQDWLNGKEY KCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREE MTKNQVSLTCLV KGFYPSDIAVEWESNGQPENNYKTPPVLDSDGSFFL YSKLTVDKSRWQQ GNVFSCSVMHEALHNHYTQKSLSLSPGK</p>	
Predicted molecular weight	43 kDa including tags	
Amino acids	1 to 117	
Tags	His tag N-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 Lyophilised

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, 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).

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