

# Human GATE-16 / GABARAPL2 Protein (His Tag)

Catalog Number: 14563-H07E



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

ATG8; ATG8C; GATE-16; GATE16; GEF-2; GEF2

### Protein Construction:

A DNA sequence encoding the mature form of human GABARAPL2 (P60520) (Met1-Phe117) was expressed with a polyhistidine tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** His

### Molecular Mass:

The recombinant human GABARAPL2 consists of 132 amino acids and predicts a molecular mass of 15.5 KDa. It migrates as an approximately 15 KDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

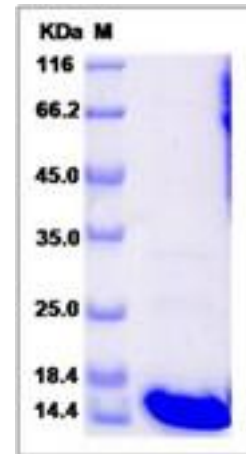
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

GATE-16, also known as ATG8, belongs to the MAP1 LC3 family. It is expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. GATE-16 is expressed at very low levels in lung, thymus and small intestine. GATE-16 is involved in intra-Golgi traffic. It modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1.

## References

1. Ewing Rob M, *et al.* (2007) Large-scale mapping of human protein-protein interactions by mass spectrometry. *Mol Syst Biol.* 3(1):89.
2. Okazaki N, *et al.* (2000) Interaction of the Unc-51-like kinase and microtubule-associated protein light chain 3 related proteins in the brain: possible role of vesicular transport in axonal elongation. *Brain Res Mol Brain Res.* 85(1-2):1-12.
3. Xin Y, *et al.* (2001) Cloning, expression patterns, and chromosome localization of three human and two mouse homologues of GABA(A) receptor-associated protein. *Genomics.* 74 (3):408-13.

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