Lot # XXXXX

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MATERIAL DATA SHEET

His_6-Apg8p2 (GATE-16, GABARAPL2), *human recombinant*
Cat. # UL-420

There are at least three groups of mammalian Apg8 proteins which are homologs of the yeast Atg8 protein, GATE-16 (**G**olgi-associated **AT**Pase **E**nhancer of **16** kDa). The mammalian Apg8 proteins are ubiquitin-like modifiers that have divergent functions in humans, and are essential in autophagic conjugation systems. This modifier protein has a conserved C-terminal glycine residue that becomes covalently attached to phosphatidylethanolamine (PE) after it is activated by the Apg7p (E1) and Apg3p (E2) enzymes. GATE-16 is highly conserved from yeast to mammals, is constitutively expressed in secretory organs and localizes to the Golgi apparatus. The protein participates in membrane-trafficking events, and it has been proposed that GATE-16 modulates intra-Golgi transport by acting as an adaptor protein that couples NSF activity and SNARE activation. Accession # NP_009216.

Product Information

Quantity:	500 µg
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 100 mM NaCl, 10% glycerol, 1 mM DTT. Concentration varies with lot number.
MW:	15.7 kDa
Purity:	> 95% by SDS-PAGE

Use & Storage

Use:	Typical concentration to support conjugation *in vitro* is 10-50 µM depending on conditions.
Storage:	Store at -80°C. Avoid multiple freeze/thaw cycles.

Literature

References:

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Tanida I., *et al.* (2002) J. Biol. Chem. **277**: 13739-13744
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