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Product datasheet for AR09825PU-L

GABARAPL2 (1-117, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	GABARAPL2 (1-117, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MKWMFKEDHS LEHRCVESAK IRAKYPDRVP VIVEKVSGSQ IVDIDKRKYL VPSDITVAQF MWIIRKRIQL PSEKAIFLFV DKTVPQSSLT MGQLYEKEKD EDGFLYVAYS GENTFGF
Tag:	His-tag
Predicted MW:	15.8 kDa
Concentration:	lot specific
Purity:	>90%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5 mM DTT, 20% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GABARAPL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_009216
Locus ID:	11345
UniProt ID:	P60520
Cytogenetics:	16q23.1
Synonyms:	ATG8; ATG8C; GATE-16; GATE16; GEF-2; GEF2

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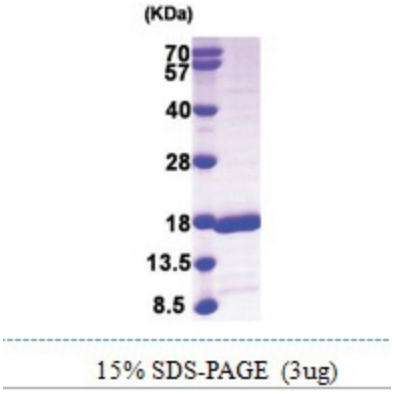
Summary: Ubiquitin-like modifier involved in intra-Golgi traffic. Modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1 (By similarity). Involved in autophagy. Plays a role in mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.[UniProtKB/Swiss-Prot Function]

Protein Pathways: Regulation of autophagy

Product images:



15% SDS-PAGE (3ug)