

Recombinant Human ATG13, GST-tagged

Cat. No. ATG13-6972H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human ATG13 was expressed by baculovirus in E.coli using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	Full length
Description	ATG13 is a protein that is part of the autophagy complex which is the major route by which cytoplasmic contents are delivered to the lysosome for degradation. ATG13 localizes on the autophagic isolation membrane and is essential for autophagosome formation. In mammals, ATG13 interacts with ATG1 (ULK1/2) and FIP200 to form the autophagy. ATG101 can also bind to ATG13 protein and is important for the stability and basal phosphorylation of ATG13 and ULK1. mTOR can suppress the autophagy process through direct regulation of the ULK1-Atg13-FIP200 complex where mTOR has been shown to phosphorylate ATG13.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~96 kDa
Purity	>70%

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Applications	Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1 µg/µ
GENE INFORMATION	
Gene Name	ATG13 ATG13 autophagy related 13 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	ATG13
Synonyms	ATG13; ATG13 autophagy related 13 homolog (S. cerevisiae); KIAA0652; autophagy-related protein 13; FLJ20698;
Gene ID	9776
mRNA Refseq	NM_001142673
Protein Refseq	NP_001136145
UniProt ID	O75143
Chromosome Location	11p11.2
Pathway	mTOR signaling pathway, organism-specific biosystem;
Function	protein binding; protein kinase binding;

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