Datasheet for ABIN6699535

ATG13 Protein (GST tag)

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Overview

Quantity:	20 µg
Target:	ATG13
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATG13 protein is labelled with GST tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	ATG13 recombinant protein-GST fusion protein
Purification:	Recombinant full-length human ATG13 was expressed by baculovirus in E.coli using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >70% by densitometry.
Purity:	>70%

Target Details

Target:	ATG13
Alternative Name:	ATG13 (ATG13 Products)
Background:	Synonyms: KIAA0652, Autophagy-related protein 13, ATG13 Background: 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

Target Details

	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 (1). mTOR can suppress the autophagy process through direct regulation of the ULK1-Atg13-FIP200 complex where mTOR has been shown to phosphorylate ATG13 (2). ATG13 Protein is ideal for investigators involved in Signaling Proteins, Apoptosis Proteins, Angiogenesis, Angiogenesis, Apoptosis/Autophagy, Apoptosis/Autophagy, Cardiovascular Disease, Cardiovascular Disease, Cellular Stress, Cellular Stress, Inflammation, Inflammation, Metabolic Disorder, Metabolic Disorder, Neurobiology, Neurobiology, NfkB Pathway, NfkB Pathway, p38 Pathway, and p38 Pathway research.
NCBI Accession:	NM_001142673
Pathways:	PI3K-Akt Signaling, Autophagy

Application Details

Application Notes:	Western_Blot_Dilution: User Optimized Application_Note: ATG13 Protein is suitable for use in Western Blot. Expect a band approximately ~ 96 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.1 µg/µL
Buffer:	ATG13 Protein is stored in 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
Storage:	-80 °C
Storage Comment:	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Expiry Date:	12 months