Datasheet for ABIN7505007

LC3B Protein (AA 1-120) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	LC3B (MAP1LC3B)
Protein Characteristics:	AA 1-120
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LC3B protein is labelled with His tag.

Product Details

Sequence:	Met1-Gly120
Characteristics:	A DNA sequence encoding theHuman MAP1LC3B protein (Q9GZQ8) (Met1-Gly120) was expressed with a N-His.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	LC3B (MAP1LC3B)
Alternative Name:	MAP1LC3B (MAP1LC3B Products)
Background:	Abbreviation: MAP1LC3B Target Synonym: Autophagy-related protein LC3 B,Autophagy-related ubiquitin-like modifier LC3 B,MAP1 light chain 3-like protein 2,MAP1A/MAP1B light chain 3 B,MAP1A/MAP1B LC3 B,Microtubule-associated protein 1 light chain 3 beta

Target Details

	Background: Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes).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.In response to cellular stress and upon mitochondria fission, binds C-18 ceramides and anchors autophagolysosomes to outer mitochondrial membranes to eliminate damaged mitochondria.While LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation.Promotes primary ciliogenesis by removing OFD1 from centriolar satellites via the autophagic pathway.Through its interaction with the reticulophagy receptor TEX264, participates in the remodeling of subdomains of the endoplasmic reticulum into autophagosomes upon nutrient stress, which then fuse with lysosomes for endoplasmic reticulum turnover. Upon nutrient stress, directly recruits cofactor JMY to the phagophore membrane surfaces and promotes JMY's actin nucleation activity and autophagosome biogenesis during autophagy.
Molecular Weight:	Calculated MW: 14.1 kDa Observed MW: 18 kDa
UniProt:	Q9GZQ8
Pathways:	Autophagy

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months