LC3B Conjugated Antibody

Catalog No: #C48312

Package Size: #C48312-AF350 100ul #C48312-AF405 100ul #C48312-AF488 100ul #C48312-AF555 100ul #C48312-AF594 100ul #C48312-AF647 100ul #C48312-AF680 100ul #C48312-AF750 100ul #C48312-Biotin 100ul

Orders: order@signalwayantibody.com
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Description

Product Name	LC3B Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant Protein of MAP LC3β
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	ATG8F antibody Autophagy-related protein LC3 B antibody Autophagy-related ubiquitin-like modifier LC3 B antibody LC3B antibody LC3II antibody MAP1 light chain 3 like protein 2 antibody MAP1 light chain 3-like protein 2 antibody MAP1A/1BLC3 antibody MAP1A/MAP1B LC3 B antibody MAP1A/MAP1B light chain 3 B antibody MAP1ALC3 antibody MAP1LC3B a antibody Map1lc3b antibody Microtubule associated protein 1 light chain 3 beta antibody Microtubule-associated protein 1 light chain 3 beta antibody Microtubule-associated proteins 1A/1B light chain 3B antibody MLP3B_HUMAN antibody
Accession No.	Swiss-Prot#:Q9GZQ8
Uniprot	Q9GZQ8
GeneID	81631;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	15 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and in maintaining the balance between neuronal plasticity and rigidity. MAP-light chain 3 beta (MAP-LC3β) and MAP-light chain 3 alpha (MAP-LC3α) are subunits of both MAP1A and MAP1B. MAP-LC3β , a homolog of Apg8p, is essential for autophagy and associated to the autophagosome membranes after processing. Two forms of LC3β , the cytosolic LC3-I and the membrane-bound LC3-II, are produced post-translationally. LC3-I is formed by the removal of the C-terminal 22 amino acids from newly synthesized LC3β , followed by the conversion of a fraction of LC3-I into LC3-II. LC3 enhances fibronectin mRNA translation in ductus arteriosus cells through association with 60S ribosomes and binding to an AU-rich element in the 3oΩ½oΩ½ untranslated region of fibronectin mRNA. This facilitates sorting of fibronectin mRNA onto rough endoplasmic reticulum and translation. MAP LC3β may also be involved in formation of autophagosomal vacuoles. It is expressed primarily in heart, testis, brain and skeletal muscle.

Note: This product is for in vitro research use only