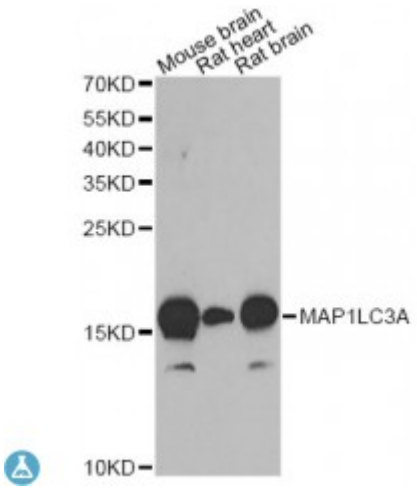
Anti-MAP1LC3A Antibody



Description	MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. The protein encoded by this gene is one of the light chain subunits and can associate with either MAP1A or MAP1B. Two transcript variants encoding different isoforms have been found for this gene. The expression of variant 1 is suppressed in many tumor cell lines, suggesting that may be involved in carcinogenesis.

Model	STJ113794
Host	Rabbit
Reactivity	Mouse, Rat
Applications	IHC, WB
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human MAP1LC3A (NP_115903.1).
Gene ID	84557
Gene Symbol	MAP1LC3A
Dilution range	WB 1:500 - 1:2000 IHC 1:50 - 1:200
Tissue Specificity	Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	Microtubule-associated proteins 1A/1B light chain 3A Autophagy-related protein LC3 A Autophagy-related ubiquitin-like modifier LC3 A MAP1 light chain 3-like protein 1 MAP1A/MAP1B light chain 3 A MAP1A/MAP1B LC3 A Microt
Molecular Weight	14.272 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:6838OMIM:601242Reactome:R-HSA-1632852
Alternative Names	Microtubule-associated proteins 1A/1B light chain 3A Autophagy-related protein LC3 A Autophagy-related ubiquitin-like modifier LC3 A MAP1 light chain 3-like protein 1 MAP1A/MAP1B light chain 3 A MAP1A/MAP1B LC3 A Microt
Function	Ubiquitin-like modifier involved in formation of autophagosomal vacuoles (autophagosomes) ,
Cellular Localization	Cytoplasm, cytoskeleton, Endomembrane system
Post-translational Modifications	The precursor molecule is cleaved by ATG4B to form the cytosolic form, LC3-I, This is activated by APG7L/ATG7, transferred to ATG3 and conjugated to phospholipid to form the membrane-bound form, LC3-II , Interaction with MAPK15 reduces the inhibitory phosphorylation and increases autophagy activity,