

Product datasheet for **TA326682**

MAP1LC3A Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	MAP1LC3A antibody was raised against a 10 amino acid peptide near the amino terminus of human MAP1LC3A.
Formulation:	MAP1LC3A antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	MAP1LC3A antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 147 kDa; Observed: 21 kDa
Gene Name:	microtubule associated protein 1 light chain 3 alpha
Database Link:	NP_852610 Entrez Gene 84557 Human Q9H492

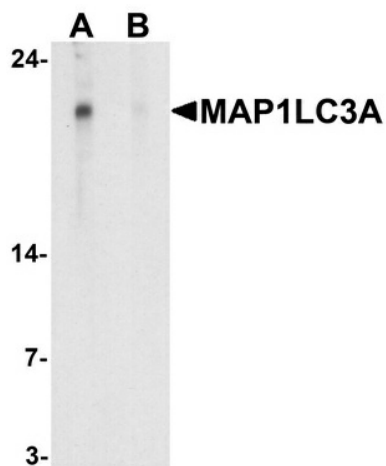
Background: Microtubule-associated proteins (MAPs) regulate microtubule stability and play critical roles in neuronal development and plasticity (1). MAP1LC3A belongs to the MAP1 LC3 family of proteins that form mature complexes with MAP1A and MAP1B which are thought to be important in the formation and development of axons and dendrites (2). MAP1LC3A is one of three isoforms of MAP1LC3, the mammalian homolog of yeast ATG8, an essential autophagy protein. These isoforms exhibit distinct expression patterns and MAP1LC3A, like MAP1LC3A but not MAP1LC3B, is post-translationally modified, suggesting the three isoforms may have different physiological functions (3).



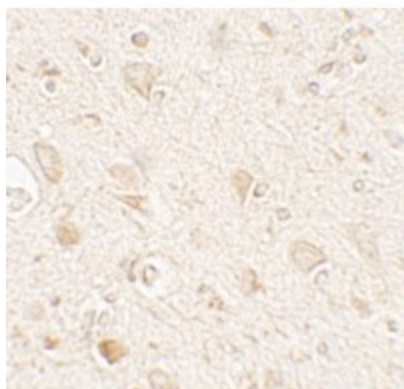
[View online »](#)

Synonyms: ATG8E; LC3; LC3A; MAP1ALC3; MAP1BLC3

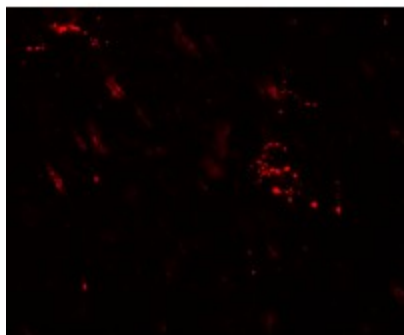
Product images:



Western blot analysis of MAP1LC3A in HeLa cell lysate with MAP1LC3A antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MAP1LC3A in human brain tissue with MAP1LC3A antibody at 5 ug/mL.



Immunofluorescence of MAP1LC3A in human brain tissue with MAP1LC3A antibody at 20 ug/mL.