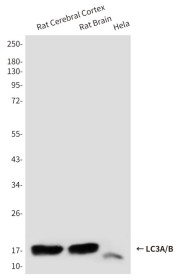
LC3A/B (3E9) Mouse mAb

db6313 **Package : 50μL 100μL**

Product Name : LC3A/B (3E9) Mouse mAb
Cat.No.: db6313
Synonyms : LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3; MAP1LC3A; LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3; MAP1LC3B
Application : WB
Reactivity : Human, Rat
Host species : Mouse

Background	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). MAP1A and MAP1B are microtubule-associated proteins which mediate the physical interactions between microtubules and components of the cytoskeleton. These proteins are involved in formation of autophagosomal vacuoles (autophagosomes). MAP1A and MAP1B each consist of a heavy chain subunit and multiple light chain subunits. MAP1LC3a is one of the light chain subunits and can associate with either MAP1A or MAP1B. The precursor molecule is cleaved by APG4B/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.
Immunogen	Synthetic peptide corresponding to human LC3B protein
Gene ID	84557, 81631
Swiss Prot	Q9H492, Q9GZQ8
Synonyms	LC3; LC3A; ATG8E; MAP1ALC3; MAP1BLC3; MAP1LC3A; LC3B; ATG8F; MAP1LC3B-a; MAP1A/1BLC3; MAP1LC3B
Reactivity	Human, Rat
Application	WB
Recommended dilution	WB: 1:500-1:1000
Calculated MW	14 kDa
Observed MW	14,16 kDa

Host species	Mouse
Clonality	Monoclonal
Clonality No.	3E9-E5-C9
Isotype	IgG2b
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Western blot analysis of LC3A/B in rat Cerebral Cortex, rat Brain and Hela lysates using LC3A/B antibody.