**Product datasheet**

**Anti-MAP1LC3A antibody ab62720**

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**Overview**

**Product name**
Anti-MAP1LC3A antibody

**Description**
Rabbit polyclonal to MAP1LC3A

**Host species**
Rabbit

**Tested applications**
Suitable for: WB, IP, ICC/IF

**Species reactivity**
Reacts with: Mouse, Rat, Human

**Immunogen**
Synthetic peptide: PSDRPFKQRRSFADR conjugated to KLH by a Cysteine residue linker, corresponding to amino acids 2-15 of Human MAP1LC3A

**Positive control**
Whole brain. U87 cells.

**Properties**

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**
pH: 7.40
Preservative: 0.097% Sodium azide
Constituent: 0.0268% PBS

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

**Applications**

Our [Abpromise guarantee](#) covers the use of ab62720 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Probably involved in formation of autophagosomal vacuoles (autophagosomes).

Tissue specificity
Most abundant in heart, brain, liver, skeletal muscle and testis but absent in thymus and peripheral blood leukocytes.

Sequence similarities
Belongs to the MAP1 LC3 family.

Post-translational modifications
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.

Cellular localization
Cytoplasm > cytoskeleton. Endomembrane system. Cytoplasmic vesicle > autophagosome membrane. LC3-II binds to the autophagic membranes.

Application | Abreviews | Notes
---|---|---
WB | | Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 16-18 kDa (predicted molecular weight: 16-18 kDa).
IP | | Use at an assay dependent concentration.
ICC/IF | | Use at an assay dependent concentration.

Target

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Images

ab62720 staining MAP1LC3A in Human HuVEC by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 pH 7.4 for 5 minutes and blocked with 5% BSA for 20 minutes at room temperature. Samples were incubated with primary antibody (1/500 in PBS) for 1 hour. A CF488A-conjugated Donkey anti-rabbit IgG polyclonal (1/500) was used as the secondary antibody.

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