Human Microtubule-associated proteins 1A/1B light chain 3C (MAP1LC3C) ELISA Kit

Catalog No: #EK9933

Package Size: #EK9933-1 48T #EK9933-2 96T

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Description

Product Name	Human Microtubule-associated proteins 1A/1B light chain 3C (MAP1LC3C) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	LC3C; LC3-like protein 2|MAP1 light chain 3-like protein 2
Accession No.	Q9BXW4
Uniprot	Q9BXW4
GeneID	440738;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate MAP1LC3C in samples. An antibody specific for MAP1LC3C has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAP1LC3C present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAP1LC3C is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAP1LC3C bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Autophagy is a highly regulated bulk degradation process that plays an important role in cellular maintenance and development. MAP1LC3C is 1 of 3 orthologs of the yeast autophagosome protein Atg8. The deduced 147-amino acid protein shares 55% identity with rat Map1lc3. Northern blot analysis detected a 1.9-kb transcript expressed predominantly in placenta, lung, and ovary, with little to no expression in other tissues examined. Western blot analysis of transfected human embryonic kidney cells detected MAP1LC3C proteins of about 16 and 15.5 kD.

MAP1LC3C underwent C-terminal cleavage after the conserved residue gly120. Gly120 was required for posttranslational modification of the MAP1LC3C protein.

Note: This product is for in vitro research use only