Bovine Microtubule-associated proteins 1A/1B light chain 3B (MAP1LC3B) ELISA Kit

Catalog No: #EK9935

Package Size: #EK9935-1 48T #EK9935-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Bovine Microtubule-associated proteins 1A/1B light chain 3B (MAP1LC3B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	LC3B; MAP1A/1BLC3; microtubule-associated proteins 1A/1B light chain 3
Accession No.	O41515
Uniprot	O41515
GeneID	408001;
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 MAP1LC3B in samples. An antibody specific for MAP1LC3B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMAP1LC3B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAP1LC3B 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 MAP1LC3B bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MAP1LC3b is a subunit of neuronal microtubule-associated MAP1A and MAP1B proteins, which are involved in microtubule assembly and important for neurogenesis. Studies on the rat homolog implicate a role for this gene in autophagy, a process that involves the bulk degradation of cytoplasmic component.The deduced 125-amino acid protein shares 94% identity with rat Map1lc3. Northern blot analysis detected transcripts of 2.5 and 1.0 kb abundantly expressed in heart, brain, skeletal muscle, and testis, with weaker expression in all other tissues examined. MAP1LC3B was posttranslationally modified. Unlike MAP1LC3A and MAP1LC3C, however, MAP1LC3B did not undergo C-terminal cleavage and did not require the conserved gly120 for posttranslational modification. The essential site for modification of MAP1LC3B was lys123.

Note: This product is for in vitro research use only