

Autophagy ELISA Kit

Autophagy ELISA Kit (LC3-II Quantitation)

CATALOG #
AAA11445

PRODUCT SYNONYMS

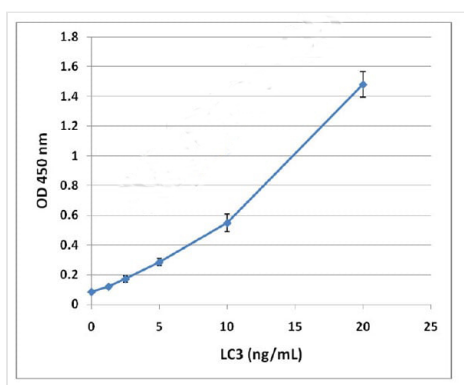
Autophagy; Autophagy ELISA Kit (LC3-II Quantitation); Autophagy elisa kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Upon receipt, store the Recombinant LC3 Standard at -80 degree C, and the Anti-LC3 Antibody and Secondary Antibody at -20 degree C. Store all other components at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Autophagy elisa kit

Background: Autophagy is a lysosomal degradation pathway for cytoplasmic material, which is activated during stress conditions such as amino acid starvation or viral infection. Mammalian cells use autophagy during short periods of starvation to degrade nonessential cellular components in order to liberate nutrients for vital biosynthetic reactions. Recent results have shown that autophagy also contributes to development, growth regulation and cancer, as well as longevity. After induction by a stress signal such as amino acid starvation, the first step in autophagy is the formation of an autophagosome. A well published autophagosome marker protein, MAP LC3, was originally identified as a microtubule associated protein and named 'microtubule-associated-protein-light-chain-3'. LC3 is a small 16-18 kDa protein that is soluble in nonstarved cells, but becomes peripherally membrane-associated during amino acid starvation. By immunoelectron microscopy, LC3 has been shown to associate to the inner and outer limiting membranes of autophagosomes, and the membrane association is mediated by a covalent conjugation to a lipid, phosphatidylethanolamine. In Western blots, two forms of LC3 are seen, LC3-I and LC3-II. LC3-I is found in the soluble fraction, and LC3-II in the pelletable membrane fraction. Both LC3-I and LC3-II are seen in nonstarved cells, but during autophagy induction the proportion of LC3-II increases. Autophagy ELISA Kit (LC3-II Quantitation) is an enzyme immunoassay developed for detection and quantitation of LC3 in cell lysate samples. The kit utilizes a selective permeabilization procedure to remove the cytosolic pro-LC3 and LC3-I and retain the autophagosome membrane bound LC3-II (Figure 1). The quantity of LC3-II in unknown lysate sample is determined by comparing its absorbance with that of a known LC3 standard curve. Each kit provides sufficient reagents to perform up to 96 assays, including standard curve and unknown samples.

Product Categories/Family for Autophagy elisa kit

Cell Based Assays; Autophagy

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/elisa-kits/autophagy/11445>