LAMP-2 Antibody (CT)

ALTERNATE NAMES: LAMP-2, Lysosome associated membrane protein 2

CATALOG #: 5078-100

AMOUNT: 100 µg

HOST: Rabbit

ISOTYPE: IgG1

IMMUNOGEN: LAMP-2 antibody was raised against a 17 amino acid peptide from near the carboxy terminus of human LAMP-2.

PURIFICATION: Affinity chromatography purified via peptide column.

FORMULATION: 100 µg (1 mg/ml) in 1X PBS containing 0.02% sodium azide.

SPECIES REACTIVITY: Human, mouse

STORAGE CONDITIONS: Can be stored at 4°C for three months. For long term storage, store at -20°C. Avoid freeze/thaw cycles.
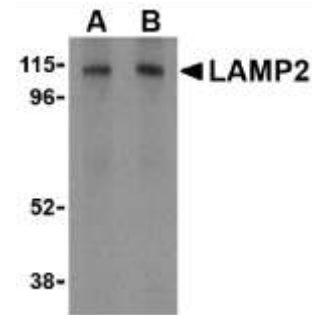
DESCRIPTION:
Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells. It is involved in the preservation of cellular nutrients under starvation conditions as well as the normal turnover of cytosolic components and is negatively regulated by TOR (Target of rapamycin). LAMP-2, a highly glycosylated protein associated with the lysosome, has recently been shown to be important in autophagy as mice deficient in this protein failed to convert autophagic vacuoles into vacuoles leading to impaired degradation of long-lived proteins. This correlates with the finding that human LAMP-2 deficiency causing Danon's disease is associated with the accumulation of autophagic material in striated myocytes. LAMP-2 exists in multiple isoforms.

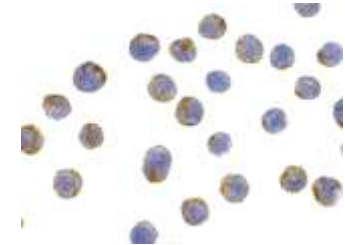**SPECIFICITY:** This antibody will detect the carboxy terminus of LAMP-2.

APPLICATION: Western Blot: 1 - 2 µg/ml, Immunocytochemistry: 10 µg/ml, ELISA.

**Note*: This information is only intended as a guide. The optimal dilutions must be determined by the user.*

Western blot analysis of LAMP-2 in HepG2 cell lysate with LAMP-2 antibody at (A) 1 and (B) 2 µg/ml.

Immunocytochemistry of LAMP-2 in HepG2 cells with LAMP-2 antibody at 10 µg/ml.

RELATED PRODUCTS:
- mTOR Antibody **(Cat. No. 3786-100)**
- LAMP-1 Antibody (Center) **(Cat. No. 5077-100)**

FOR RESEARCH USE ONLY! Not to be used on humans.