

## LAMP-1 Antibody (Center)

<b>ALTERNATE NAMES:</b>	LAMP-1, Lysosome associated membrane protein 1
<b>CATALOG #:</b>	5077-100
<b>AMOUNT:</b>	100 µg
<b>HOST:</b>	Rabbit
<b>ISOTYPE:</b>	IgG1
<b>IMMUNOGEN:</b>	LAMP-1 antibody was raised against a 15 amino acid peptide from near the center of human LAMP-1.
<b>PURIFICATION:</b>	Affinity chromatography purified via peptide column.
<b>FORMULATION:</b>	100 µg (1 mg/ml) in 1X PBS containing 0.02% sodium azide.
<b>SPECIES REACTIVITY:</b>	Human, mouse, rat
<b>STORAGE CONDITIONS:</b>	Can be stored at 4°C for three months. For long term storage, store at -20°C. Avoid freeze/thaw cycles.

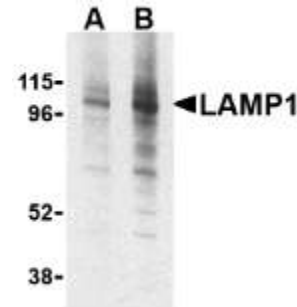
**DESCRIPTION:**

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). A protein recently found to be involved in autophagy, LAMP-2, is a highly glycosylated protein associated with the lysosome. LAMP-1 shares much homology to LAMP-2 and is thought to have overlapping functions. Mice lacking LAMP-1 had very minor defects compared to those deficient in LAMP-2 expression. However, the loss of both proteins resulted in embryonic lethality, suggesting that each protein possesses some unique and necessary functions.

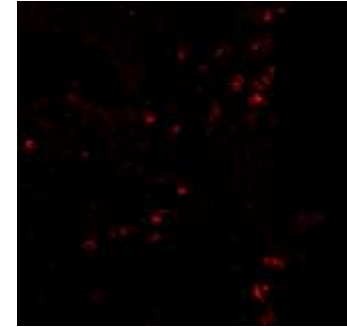
**SPECIFICITY:** This antibody will detect the central region of LAMP-1.

**APPLICATION:** Western Blot: 1 - 2 µg/ml, Immunofluorescence: 20 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-1 in EL4 cell lysate with LAMP-1 antibody at (A) 1 and (B) 2 µg/ml.



Immunofluorescence of LAMP-1 in human colon tissue with LAMP-1 antibody at 20 µg/ml.

**RELATED PRODUCTS:**

- mTOR Antibody (Cat. No. 3786-100)
- LAMP-2 Antibody (CT) (Cat. No. 5078-100)

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