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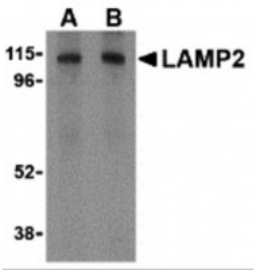
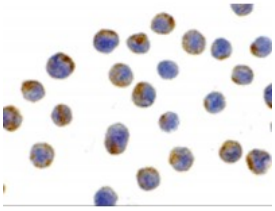
LAMP-2 Antibody

CATALOG NUMBER: 3627



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



Immunocytochemistry of LAMP-2 in HepG2 cells with LAMP-2 antibody at 10 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Chicken: (75%)
TESTED APPLICATIONS:	ELISA, ICC, WB
APPLICATIONS:	LAMP-2 antibody can be used for the detection of LAMP-2 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1211 - HepG2 Cell Lysate
IMMUNOGEN:	LAMP-2 antibody was raised against a 17 amino acid synthetic peptide from near the carboxy terminus of human LAMP-2. The immunogen is located within the last 50 amino acids of LAMP-2.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	LAMP-2 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	LAMP-2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	LAMP-2 antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	LAMP-2 Antibody: Mac3, LGP-B, CD107b, Lamp-2, Lamp II, Lamp-2a, Lamp-2b, Lamp-2c, Lysosome-

	associated membrane glycoprotein 2, CD107 antigen-like family member B, LAMP-2
ACCESSION NO.:	NP_054701
PROTEIN GI NO.:	31543108
OFFICIAL SYMBOL:	Lamp2
GENE ID:	16784

Background

BACKGROUND:	LAMP-2 Antibody: 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.
REFERENCES:	1) Gozuacik D and Kimchi A. Autophagy as a cell death and tumor suppressor mechanism. Oncogene. 2004; 23:2891-906.
	2) Kisen GO, Tessitore L, Costelli P, et al. Reduced autophagic activity in primary rat hepatocellular carcinoma and ascites hepatoma cells. Carcinogenesis1993; 14:2501-5.
	3) Kamada Y, Funakoshi T, Shintani T, et al. Tor-mediated induction of autophagy via Apg1 protein kinase complex. J. Cell. Biol.2000; 150:1507-13.
	4) Granger BL, Green SA, Gabel CA, et al. Characterization and cloning of the lgp110, a lysosomal glycoprotein from mouse and rat cells. J. Biol. Chem.1990; 265:12036-43.

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December 12, 2016