

LAMP2 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56272 (clone GL2A7, ref. Granger BL et al. 1990, J Biol Chem 265: 12036-12403)

Format: 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography, 0.09% sodium azide, 50% glycerol.

BACKGROUND

Lysosome-associated membrane proteins (LAMP1 and LAMP2) are major constituents of the lysosomal membrane. These two proteins have closely related structures with 37% sequence homology. Both are transmembrane glycoproteins localized primarily in lysosomes and late endosomes. LAMP2 has also been detected at the plasma membrane of cells undergoing differentiation and activation and in cells that secrete lysosomal hydrolases. Cell surface LAMP1 and LAMP2 promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium which suggests that the LAMP proteins are involved in adhesion of PBMC to sites of inflammation. Defects in LAMP2 are associated with Danon disease.

SPECIFICATION SUMMARY

Antigen: Gluteraldehyde-fixed mouse liver lysosomes

Host Species: Rat

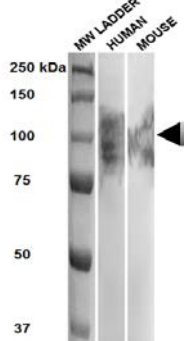
Antibody Class: IgG1

Specificity: This antibody recognizes human, mouse, and rabbit LAMP2 (~100-110 kDa).

Accession no.: NP_001017959.1 **Gene ID:** 16784

APPLICATIONS

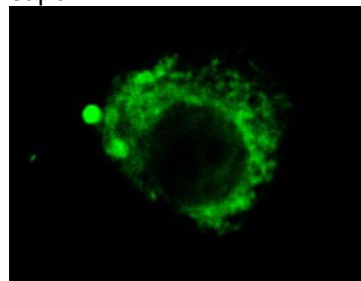
Immunoblotting: Use at 1-2ug/ml. A band of ~100-110kDa (glycosylated) is detected.



Lane 1: MW ladder, Lane 2: 20ug HEK293 lysate, Lane 3: 10ug 3T3NIH lysate

These are recommended concentrations.

Immunofluorescence: Use at 1-2ug/ml. This antibody labels lysosomes and late endosomes in cells permeabilized with saponin.



Distribution of lysosomes in circulating endothelial cells (CEC)

Enduser should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.