NEUROMICS

# LAMP1 Data Sheet

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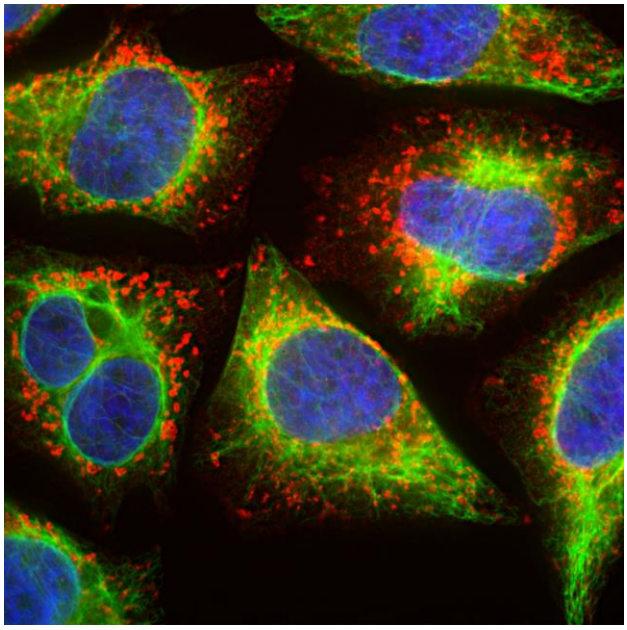
| **Catalog Number:** | MO22129 | **Host:** | Mouse |
| **Product Type:** | Mouse Monoclonal IgG | **Species Reactivity:** | Human |
| **Immunogen Sequence:** | amino acids 32-350 of the human LAMP1 precursor sequence in NP_005552.3purified from *E. coli* | **Format:** | Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide. Concentration: 1mg/ml. |
| **Applications:** | Immunofluorescent: 1:2,000<br>Immunocytochemistry: 1:2,000<br>Immunohistochemistry: 1:2,000<br>Western Blot: 1:10,000 | | |
| | Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. | | |
| **Storage:** | Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles. | | |

## Application Notes



**Description/Data:**
LAMP1 (lysosomal associated membrane protein 1) is a protein primarily associated with the lysosomal membrane. Antibodies to LAMP1 are therefore excellent markers of lysosomes in mammalian cells, though some LAMP1 may also be seen on late endosomes and on the plasma membrane. The protein is also known as CD107a, lysosomal associated membrane glycoprotein 1, LGP120 and LAMPA, as the protein was independently discovered and named by several different labs. This antibody can be used to visualize lysosomes in human cells and to quantify lysosomal content in human cells by western blotting. Mouse select image at left for larger view.

*Image: Immunofluorescent analysis of HeLa cells stained with mouse mAb to LAMP1, MO22129, dilution 1:500 in red, and costained with chicken pAb to vimentin dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. The cells were treated with 50µM of chloroquine, an inhibitor of autophagy, for 16 hours prior to staining. The LAMP1 antibody reveals vesicular staining of LAMP1 protein accumulated in swollen lysosomes, while the vimentin antibody specifically labels the intermediate filament network in these cells.*

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