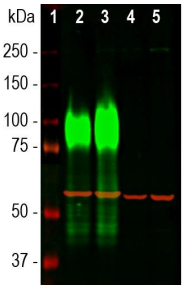
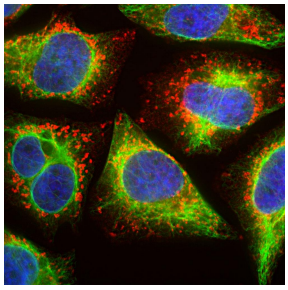
Product Data Sheet: LAMP1

Cat. No:	MAB-94450
Conjugate:	Unconjugated
Size:	100 ug
Clone:	LMP1
Concentration:	1mg/ml
Host:	Ms
Isotype:	IgG
Immunogen:	Amino acids 32-350 of the human LAMP1 precursor sequence in NP_005552.3 purified from E. Coli
Reactivity:	Hu
Applications:	Western Blot: 1:2.500-5.000 Immunofluorescence: 1:1.000 Immunocytochemistry: 1:1.000 Immunohistochemistry: 1:1.000
Molecular Weight:	90-120kDa
Purification:	Purified
Background:	LAMP1 is an acronym for “lysosomal membrane associated protein 1”, and, as the name suggests, LAMP1 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. The MAB-94450 was made against amino acids 32-350 of the human LAMP1 precursor sequence in NP_005552.3 expressed in and purified from E. coli. The construct is missing the N-terminal leader sequence and the C-terminal membrane spanning and cytoplasmic sequence, and so corresponds to the lysosomal luminal domain. The antibody is human specific and works well on HeLa, HEK293 and other cell lines of human origin, binding to luminal LAMP1. This antibody can be used to visualize lysosomes in human cells and to quantify lysosomal content in human cells by western blotting.
Form:	Liquid
Buffer:	Purified in PBS, 50% glycerol, 5mM NaN3
Storage:	Store at 4℃ for short term, for longer term at -20℃



Western blot analysis of different cell



Immunofluorescent analysis of HeLa

lysates using mouse mAb to LAMP1, dilution 1:10,000 in green. Cells were maintained under normal conditions (Ct), or treated with 50

cells stained with mouse mAb to LAMP1, dilution 1:500 in red, and co-stained with chicken pAb to vimentin, dilution 1:10,000, in green. The blue is DAPI staining of nuclear DNA. The cells were treated with 50