

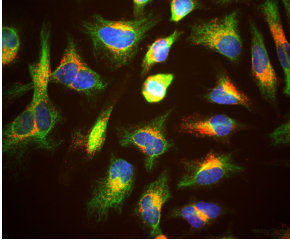
Anti-LAMP1 Antibody [5H6] (A85308)

Specifications:

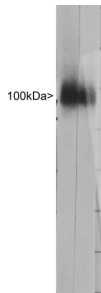
Name:	Anti-LAMP1 Antibody [5H6]
Description:	Mouse monoclonal (5H6) antibody to LAMP1.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:10,000, ICC/IF: 1:2,000, IHC: 1:2,000
Reactivity:	Human
Immunogen:	Recombinant construct corresponding to amino acids 32-350 of the human LAMP1 precursor sequence, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	5H6
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	~90-120 kDa
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This antibody can be used to visualize lysosomes in human cells and to quantify lysosomal content in human cells by western blotting.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

Anti-LAMP1 Antibody [5H6] (A85308)

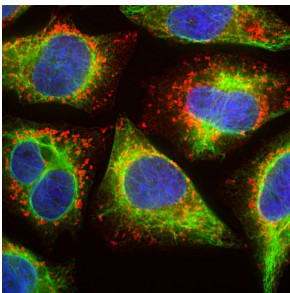
Images:



HeLa cells stained with Anti-Lamp1 Antibody (red), Anti-Vimentin Antibody (A85421) (green) and DNA (blue). The Anti-Lamp1 Antibody reveals strong punctate cytoplasmic staining corresponding to lysosomes and late endosomes, while the Anti-Vimentin Antibody reveals cytoplasmic intermediate filaments.



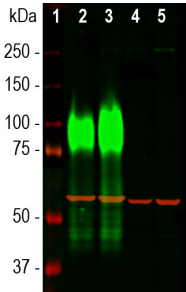
Western strip blots of HeLa cell crude extracts stained with Anti-Lamp1 Antibody in strip 9. Lane 10 shows staining with Anti-Lamp1 Antibody (A85309). Both antibodies bind to a diffuse band running at between ~90 and ~120 kDa as expected, and show no appreciable cross reactivity with any other protein.



Immunofluorescent analysis of HeLa cells stained with Anti-Lamp1 Antibody [5H6] (A85308), at a dilution of 1:500, in red, and co-stained with Anti-Vimentin Antibody (A85421), at a dilution of 1:10,000, in green. The blue is DAPI staining of nuclear DNA. The cells were treated with 50 μ M of chloroquine, an inhibitor of autophagy, for 16 hours prior to staining. The Anti-Lamp1 Antibody [5H6] (A85308) reveals vesicular staining of LAMP1 protein accumulated in swollen lysosomes, while the Anti-Vimentin Antibody (A85421) specifically labels the intermediate filament network in these cells.

Anti-LAMP1 Antibody [5H6] (A85308)

Images continued:



Western blot analysis of different cell lysates using Anti-Lamp1 Antibody [5H6] (A85308), at a dilution of 1:10,000, in green. Cells were maintained under normal conditions (Ct), or treated with 50 μ M chloroquine (CQ), an inhibitor of autophagy, for 24 hours. The lanes contain samples of: [1] Protein standards, in red, [2] HeLa cells (Ct), [3] HeLa cells (CQ), [4] NIH-3T3 cells (Ct), and [5] NIH-3T3 cells (CQ). The smeared band between 75 kDa and 120 kDa corresponds to variably glycosylated forms of the Lamp1 protein detected only in the human cells. This antibody does not recognise the rodent Lamp1 homologue. The same blot was probed with Anti-Heat Shock Protein 60 Antibody (A85438), at a dilution of 1:20,000, in red. The HSP60 antibody shows heat shock 60 protein as a positive loading control with apparent molecular weight of 60kDa in all preparations.