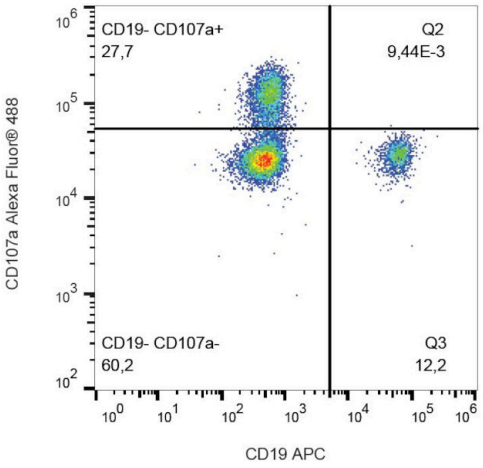
LAMP1 Monoclonal Antibody (H4A3), Alexa Fluor™ 488

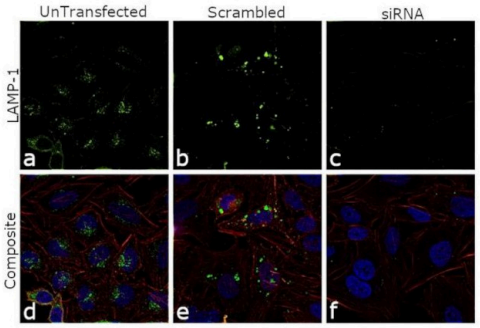
Product Details	
Size	100 Tests
Species Reactivity	Human, Mouse, Non-human primate
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	H4A3
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Immunogen	Human PBMC
Form	Liquid
Purification	Size-exclusion chromatography
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	15mM sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2539495

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	1 Publication
Immunocytochemistry (ICC/IF)	Assay-dependent	1 Publication
Flow Cytometry (Flow)	4 µL/100 µL whole blood or 10^6 cells	1 Publication

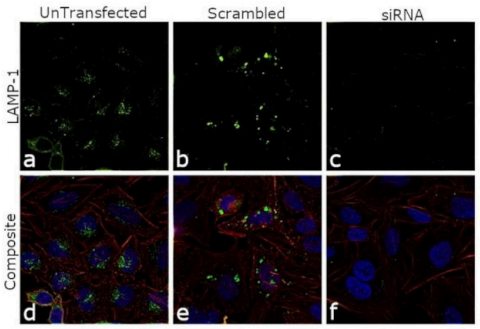
Product Images For LAMP1 Monoclonal Antibody (H4A3), Alexa Fluor™ 488



LAMP1 Antibody (MA5-18121) in Flow
Flow cytometry analysis (intracellular staining) of human peripheral blood cells with anti-CD107a (H4A3) Alexa Fluor® 488 Monoclonal antibody (Product # MA5-18121).



LAMP1 Antibody (MA5-18121)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with LAMP-1 siRNA and reduction of signal was observed in Immunofluorescence using LAMP1 Monoclonal Antibody (H4A3), Alexa Fluor 488 (Product # MA5-18121). {KD}



LAMP1 Antibody (MA5-18121) in ICC/IF
Knockdown of LAMP1 was achieved by transfecting HeLa cells with LAMP1 specific siRNAs (Silencer® select Product # s8080, s8081). Immunofluorescence analysis was performed using untransfected HeLa cells (panels a, d), transfected with non-specific scrambled siRNA (panels b,e) and transfected with LAMP1 specific siRNAs (panel c,f). Cells were fixed, permeabilized, and probed with LAMP1 Monoclonal Antibody (H4A3), Alexa Fluor 488 (Product # MA5-18121, 1:250 dilution). Nuclei (blue) were stained using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962) and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Reduction of specific cytoplasmic localization was observed upon siRNA mediated knockdown (panel c,f) confirming specificity of the antibody to LAMP1. The images were captured at 60X magnification.

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3 References

Western Blot (1)

Stem cells translational medicine

Elevated glucosylsphingosine in Gaucher disease induced pluripotent stem cell neurons deregulates lysosomal compartment through mammalian target of rapamycin complex 1.

"MA5-18121 was used in Western Blot, Immunocytochemistry to identify the role of lipid in Gaucher disease using human induced pluripotent stem cell-derived neurons from types 2 and 3 neuronopathic GD (nGD) patients."

Authors: Srikanth MP,Jones JW,Kane M,Awad O,Park TS,Zambidis ET,Feldman RA

Year
2021

Species
Human

Immunocytochemistry (1)

Stem cells translational medicine

Elevated glucosylsphingosine in Gaucher disease induced pluripotent stem cell neurons deregulates lysosomal compartment through mammalian target of rapamycin complex 1.

"MA5-18121 was used in Western Blot, Immunocytochemistry to identify the role of lipid in Gaucher disease using human induced pluripotent stem cell-derived neurons from types 2 and 3 neuronopathic GD (nGD) patients."

Authors: Srikanth MP,Jones JW,Kane M,Awad O,Park TS,Zambidis ET,Feldman RA

Year
2021

Species
Human

Flow Cytometry (1)

Clinical immunology (Orlando, Fla.)

Quantification of natural killer cell polarization and visualization of synaptic granule externalization by imaging flow cytometry.

"MA5-18121 was used in Flow cytometry/Cell sorting to develop and describe the use of imaging flow cytometry (IFC) in the high throughput, rapid analysis of natural killer cell function."

Authors: Viswanath DI,Mace EM,Hsu HT,Orange JS

Year
2017

Species
Human