LAMP1 Recombinant Rabbit Monoclonal Antibody (107)

Product Details	
Size	100 µL
Species Reactivity	Human, Rat
Host/Isotype	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	107
Conjugate	Unconjugated
Immunogen	Recombinant Human LAMP1 protein
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage Conditions	Maintain refrigerated at 2-8°C for up to 1 month. For long term storage store at -20°C
RRID	AB_2785256

Applications	Tested Dilution	Publications
ELISA (ELISA)	1:25000-1:50000	-
Flow Cytometry (Flow)	1:100-1:500	-
Immunocytochemistry (ICC)	1:100-1:500	-
Immunofluorescence (IF)	1:100-1:500	-
Immunohistochemistry (Paraffin) (IHC (P))	1:500-1:2500	-
Immunoprecipitation (IP)	0.2-1 µL/mg of lysate	-
Western Blot (WB)	1:500-1:1,500	-

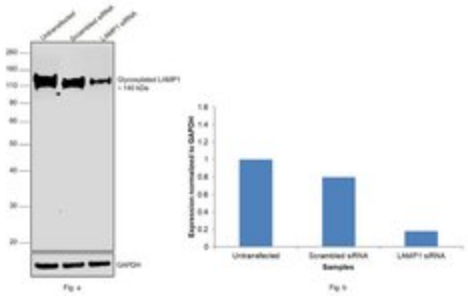
Product Specific Information

This product is preservative free. It is recommended to add sodium azide to avoid contamination (final concentration 0.05%-0.1%).

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

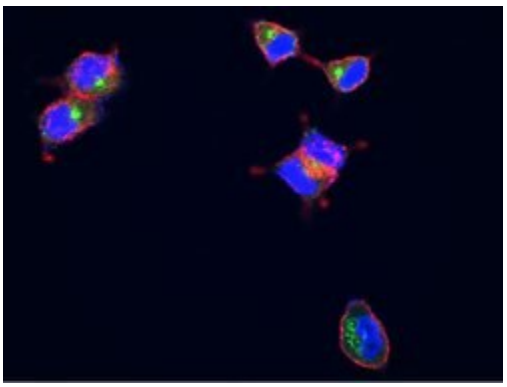
This antibody has specificity for Human LAMP1/CD107a.

Advanced Verification Data

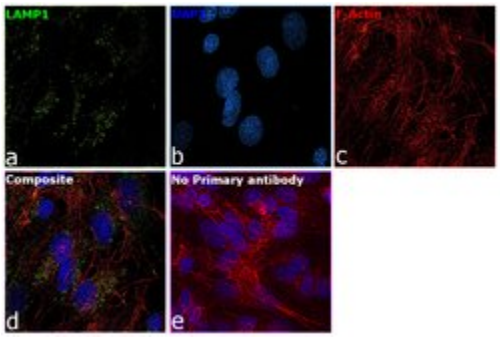


LAMP1 Antibody (MA5-29385)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Hep G2 cells were transfected with LAMP1 (Lysosome-associated membrane glycoprotein 1) siRNA and decrease in signal intensity was observed in Western Blot application using Anti-LAMP1 Recombinant Rabbit Monoclonal Antibody (107) (Product # MA5-29385). Knockdown validation info.

Product Images For LAMP1 Recombinant Rabbit Monoclonal Antibody (107)



LAMP1 Antibody (MA5-29385) in IF
Confocal immunofluorescence analysis of Human LAMP1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilzed with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with LAMP1 Monoclonal Antibody (Product # MA5-29385) (1: 300). Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody, countstained with Alexa Fluor 546-conjugated phallotoxins (red) and DAPI (blue). Positive staining was localized to lysosome membrane.



LAMP1 Antibody (MA5-29385) in ICC
Immunofluorescence analysis of LAMP1 (Lysosome-associated membrane glycoprotein 1) was performed using 80% confluent log phase Hep G2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with LAMP1 Recombinant Rabbit Monoclonal Antibody (107) (Product # MA5-29385) at 1:200 in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2500 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing endosome and lysosome-like staining for LAMP1. Panel e represents control Hep G2 cells with no primary antibody to assess background. The images were captured at 60X magnification.

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