

LAMP1 / CD107a Antibody, Mouse MAb



Sino Biological
Biological Solution Specialist

Catalog Number: 11215-MM07

GENERAL INFORMATION	
Immunogen:	Recombinant Human LAMP1 protein (Catalog#11215-H08H)
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human LAMP1 extracellular domain (rh LAMP1; Catalog#11215-H08H; NP_005552.3; Met 1-Met 382). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Ig Type:	Mouse IgG1
Clone ID:	07
Specificity:	Human LAMP1 / CD107a
Formulation:	0.2 µm filtered solution in PBS
Storage:	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Alternative Names:	CD107a,LAMPA,LGP120
APPLICATIONS	
Applications:	WB,ELISA,ELISA(Det),IHC-P,FCM,ICC/IF,IP
RECOMMENDED CONCENTRATION	
IHC-P	IHC-P: 1:50-1:200
ICC/IF	ICC/IF: 1:20-1:100
Flow Cytometry	FCM: 1:25-1:100
Western Blot	WB: 1:500-1:2000
Immunoprecipitation	IP: 1-4 µL/mg of lysate
ELISA	ELISA: 1:1000-1:2000 This antibody can be used at 1:1000-1:2000 with the appropriate secondary reagents to detect Human LAMP1.
Sandwich ELISA (Detection Ab)	ELISA(Det): 1:1000-1:10000 This antibody will detect Human LAMP-1 / CD107a / LAMP1 in ELISA pair set (Catalog: # SEK11215). In a sandwich ELISA, it can be used as detection antibody when paired with (Catalog: # 11215-MM09).

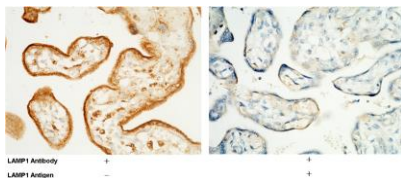
Please Note: Optimal concentrations/dilutions should be determined by the end user.

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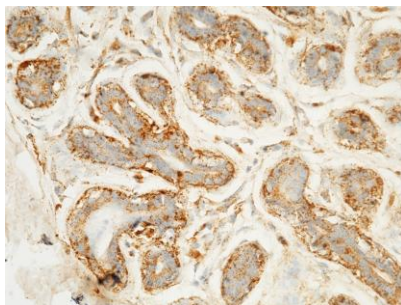
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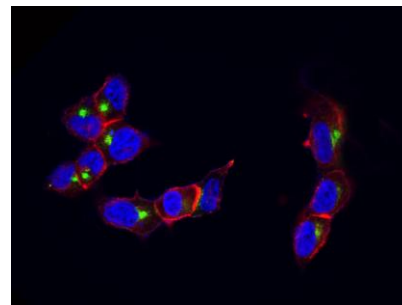
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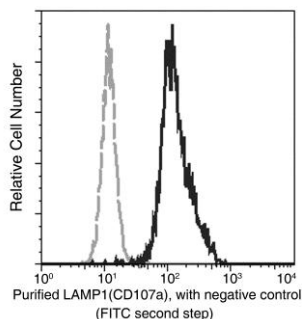
Immunohistochemical staining of human LAMP1 in human placenta with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections). The left panel: tissue incubated with primary antibody; The right panel: tissue incubated with the mixture of primary antibody and antigen (recombinant protein).



Immunohistochemical staining of human LAMP1 in human breast carcinoma with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).

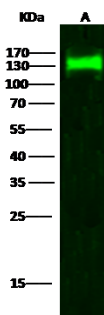


Confocal immunofluorescence analysis of Human LAMP1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 1% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human LAMP1 monoclonal antibody (1:60). Then cells were stained with the Alexa Fluor® 488-conjugated Goat Anti-mouse IgG secondary antibody, counterstained with Alexa Fluor® 546-conjugated phallotoxins (red) and DAPI (blue). Positive staining was localized to lysosome membrane.



Flow cytometric analysis of Human LAMP1(CD107a) on Jurkat cells. Cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human LAMP1(CD107a), then a FITC-conjugated second step antibody. The histogram were derived from gated events with the forward and side light-scatter characteristics of intact cells.

Flow cytometry was performed on a BD FACSCalibur flow cytometry system. Please refer to www.sinobiological.com/Flow-Cytometry-FACS-Protocols-a-750.html for technical protocols.



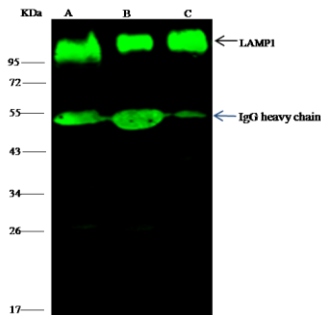
Anti-LAMP1 mouse monoclonal antibody at 1:500 dilution
Lane A: Jurkat Whole Cell Lysate

Lysates/proteins at 30 µg per lane.

Secondary
Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.

Developed using the Odyssey technique.
Performed under reducing conditions.

Predicted band size:120 kDa
Observed band size:130 kDa



LAMP1 was immunoprecipitated using:
Lane A:0.5 mg Hela Whole Cell Lysate
Lane B:0.5 mg Jurkat Whole Cell Lysate
Lane C:0.5 mg Daudi Whole Cell Lysate

4 µL anti-LAMP1 mouse monoclonal antibody and 15 µl of 50 % Protein G agarose.

Primary antibody:
Anti-LAMP1 mouse monoclonal antibody,at 1:100 dilution

Secondary antibody:
Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution

Developed using the odssey technique.
Performed under reducing conditions.

Predicted band size: 45 kDa
Observed band size: 113 kDa

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