

Product Datasheet

LAMP-1/CD107a Antibody (H4A3) - Azide and BSA Free NBP2-25183

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP2-25183

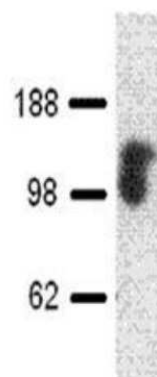
LAMP-1/CD107a Antibody (H4A3) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.00 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	H4A3
Preservative	No Preservative
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	120 kDa
Product Description	
Description	Novus Biologicals Mouse LAMP-1/CD107a Antibody (H4A3) - Azide and BSA Free (NBP2-25183) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-LAMP-1/CD107a Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3916
Gene Symbol	LAMP1
Species	Human, Mouse, Primate
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Marker	Late Endosome Marker
Specificity/Sensitivity	The mouse monoclonal antibody H4A3 recognizes CD107a, an approximately 100-120 kDa glycoprotein expressed mainly on lysosomal, but also on the plasma membrane.
Immunogen	Human PBMC
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Flow Cytometry 1:10-1:1000, Immunohistochemistry 1;10-1;20000, Immunocytochemistry/ Immunofluorescence 1;10-1;2000, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:5000, CyTOF-ready
Application Notes	This antibody is Cytof ready.

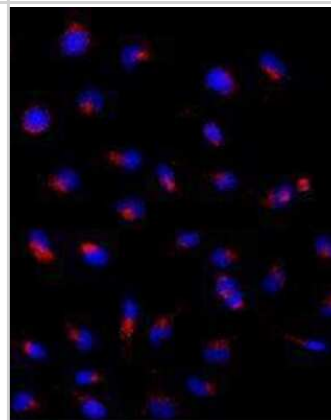


Images

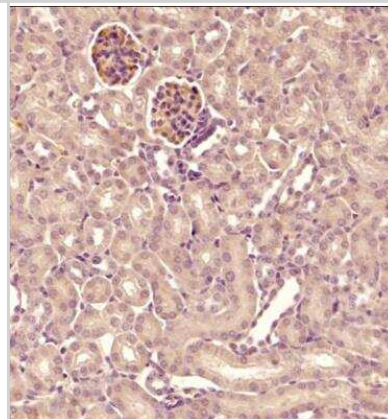
Western Blot: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Human peripheral blood cells.



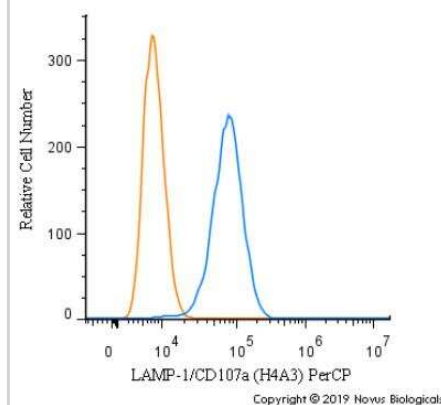
Immunocytochemistry/Immunofluorescence: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - HeLa cells.



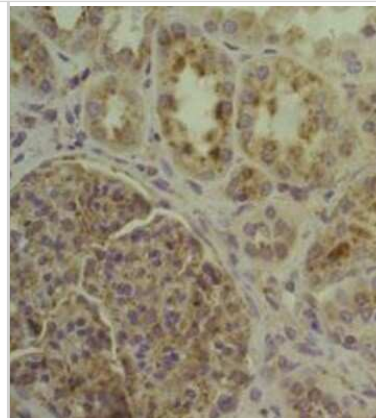
Immunohistochemistry-Paraffin: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - IHC staining of LAMP-1 [H4A3] catalog number NBP2-25183 in mouse liver. Cytoplasmic and membrane staining was observed in tubule cells and glomeruli.



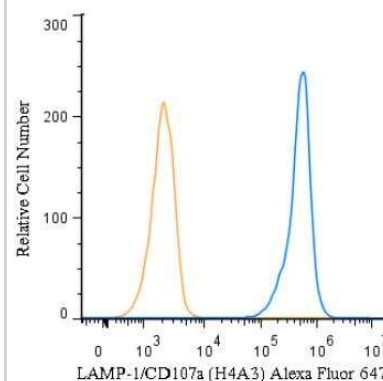
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - An intracellular stain was performed on U-87 cells with LAMP-1/CD107a Antibody (H4A3) NBP2-25183PCP (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to PerCP.



Immunohistochemistry-Paraffin: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Human kidney.

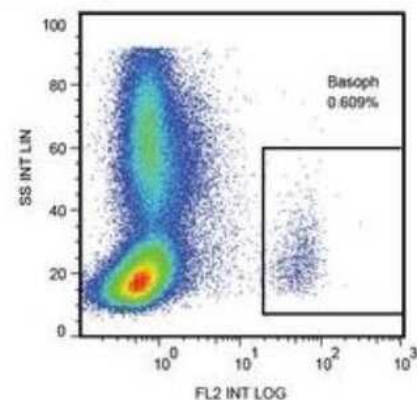


Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - An intracellular stain was performed on A549 cells with LAMP-1/CD107a antibody (H4A3) NBP2-25183AF647 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.

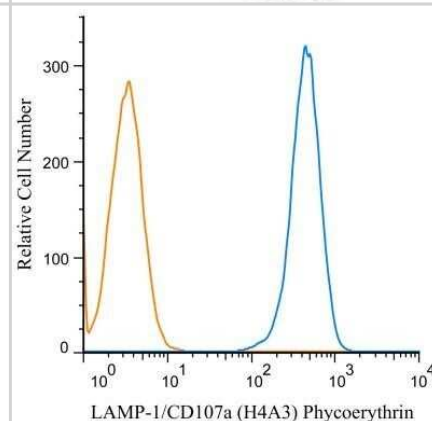


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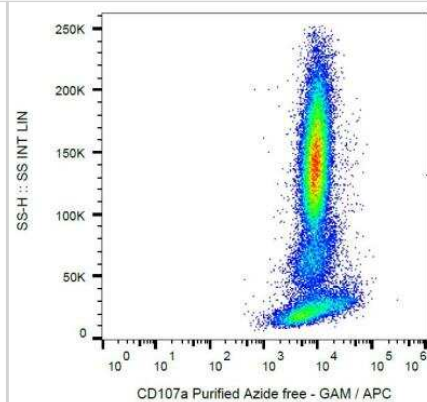
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Surface staining of human peripheral blood cells with anti-CD107a (H4A3) PE.



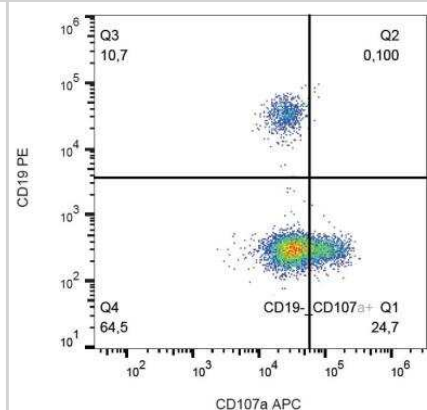
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - An intracellular stain was performed on THP-1 cells with LAMP-1/CD107a antibody (H4A3) NBP2-25183PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



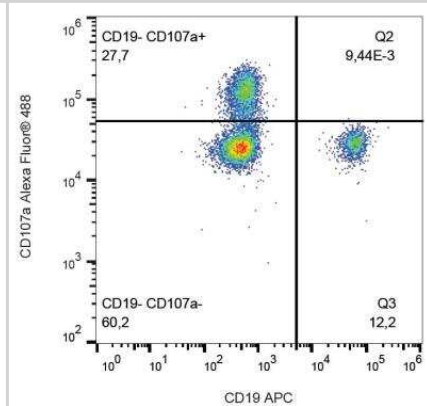
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Staining of human peripheral blood cells with anti-CD107a (H4A3) azide free, GAM-APC.



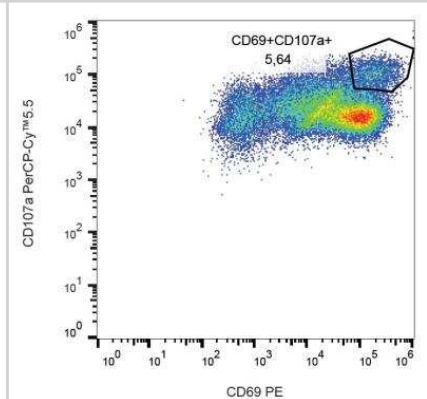
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Staining of human peripheral blood cells with anti-CD107a (H4A3) APC.



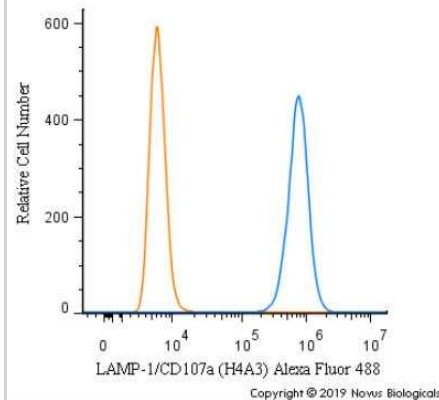
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Staining of human peripheral blood cells with anti-CD107a (H4A3) Alexa Fluor (R) 488.



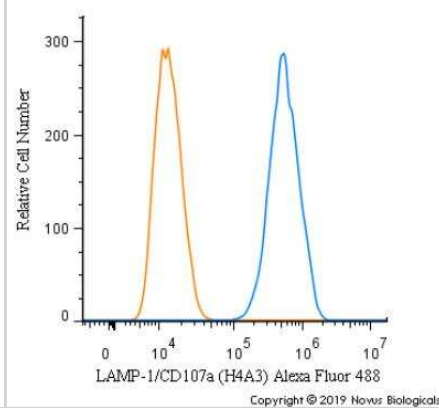
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - Analysis of PHA-activated PBMC with anti-CD107a (H4A3) PerCP-CyTM5.5.



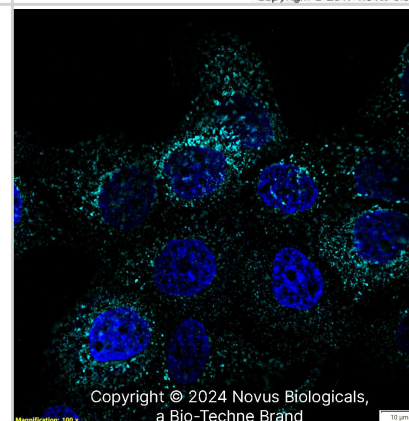
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - An intracellular stain was performed on A431 cells with LAMP-1/CD107a Antibody [H4A3] NBP2-25183AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 $\mu\text{g}/\text{mL}$ for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



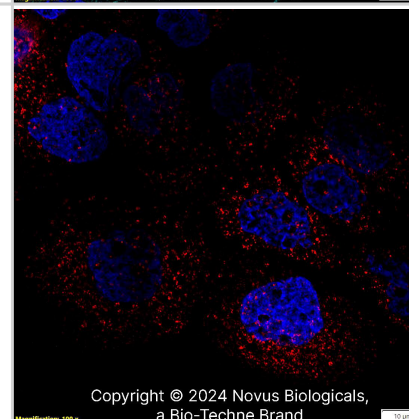
Flow Cytometry: LAMP-1/CD107a Antibody (H4A3) - Azide Free [NBP2-25183] - An intracellular stain was performed on U-87 cells with LAMP-1/CD107a Antibody (H4A3) NBP2-25183AF488 (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 $\mu\text{g}/\text{mL}$ for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 488.



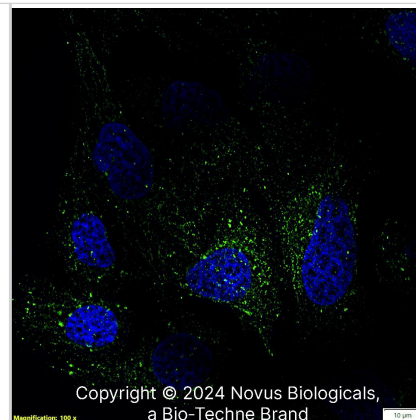
LAMP-1/CD107a (H4A3) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti- LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-25183AF647) (light blue) at 10 $\mu\text{g}/\text{mL}$ overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



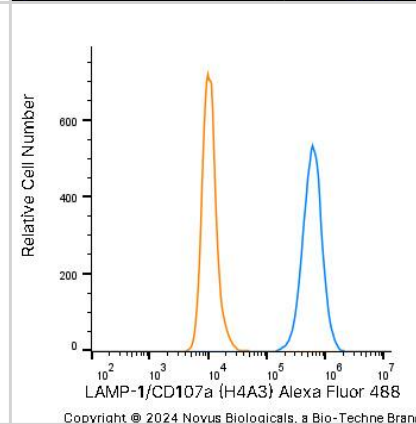
LAMP-1/CD107a (H4A3) was detected in immersion fixed A431 human skin carcinoma cell line using Mouse anti- LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to DyLight 550 (Catalog # NBP2-25183R) (red) at 5 $\mu\text{g}/\text{mL}$ overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



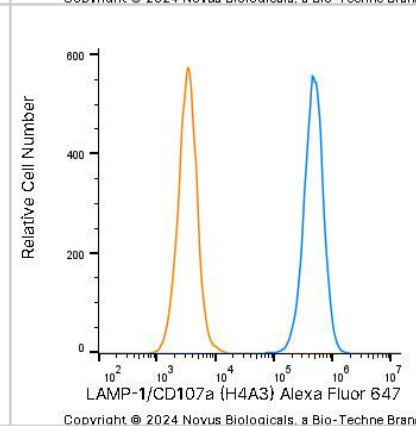
LAMP-1/CD107a (H4A3) was detected in immersion fixed U-2 OS human osteosarcoma cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-25183AF488) (green) at 5 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



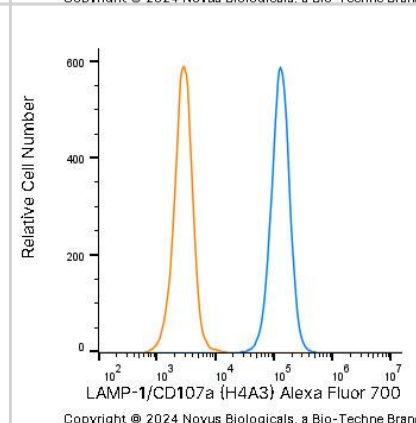
An intracellular stain was performed on U-2 OS human osteosarcoma cell line with Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 488 (Catalog # NBP2-25183AF488, blue histogram) or matched control antibody (orange histogram) at 5 µg/mL for 30 minutes at RT.



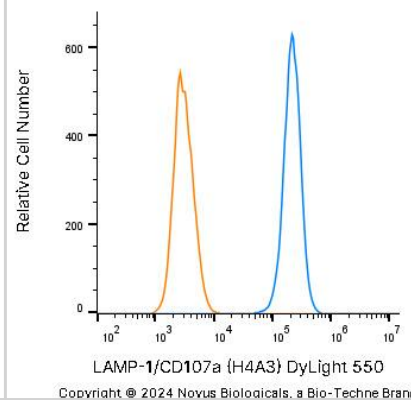
An intracellular stain was performed on A431 human skin carcinoma cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-25183AF647, blue histogram) or matched control antibody (orange histogram) at 2.5 µg/mL for 30 minutes at RT.



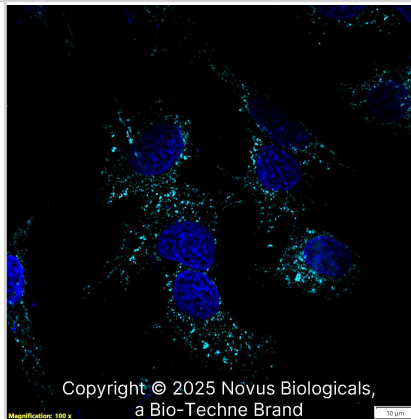
An intracellular stain was performed on A431 human skin carcinoma cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 700 (Catalog # NBP2-25183AF700, blue histogram) or matched control antibody (orange histogram) at 2.5 µg/mL for 30 minutes at RT.



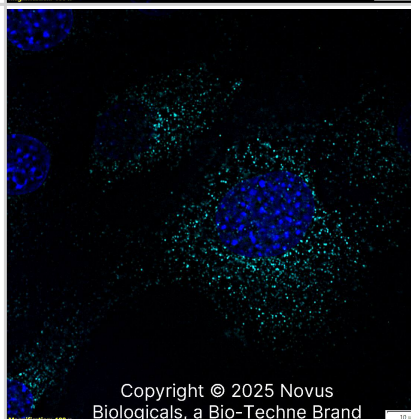
An intracellular stain was performed on A431 human skin carcinoma cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to DyLight 550 (Catalog # NBP2-25183R, blue histogram) or matched control antibody (orange histogram) at 2.5 µg/mL for 30 minutes at RT.



LAMP-1/CD107a (H4A3) was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-25183AF647) (light blue) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



LAMP-1/CD107a (H4A3) was detected in immersion fixed NIH-3T3 Mouse fibroblast cell line using Mouse anti-LAMP-1/CD107a (H4A3) Protein-G purified Monoclonal Antibody conjugated to Alexa Fluor® 647 (Catalog # NBP2-25183AF647) (light blue) at 2 µg/mL overnight at 4C. Cells were counterstained with DAPI (blue). Cells were imaged using a 100X objective and digitally deconvolved.



Publications

Twomey JD, Zhang B. Circulating Tumor Cells Develop Resistance to TRAIL-Induced Apoptosis Through Autophagic Removal of Death Receptor 5: Evidence from an In Vitro Model Cancers (Basel) 2019-01-15 [PMID: 30650534] (FLOW, Human)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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