abcam

ab25631

Anti-LAMP2 antibody [H4B4] - Lysosome Marker

Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) is a mouse monoclonal antibody detecting LAMP2 in **Western Blot, Flow Cytometry (Intra), IHC-P, IHC-Fr, ICC/IF**. Suitable for **African green monkey, Human, Rhesus monkey**.

- Over 190 publications
- Trusted since 2005

Lab Essentials

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 8.2 Constituents: 100% Borate buffered saline
Form	Liquid
Clonality	Monoclonal
Clone number	H4B4
Purification technique	Affinity purification
Concentration	0.1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	1 µg/mL
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Expected

Species	Rhesus monkey
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	African green monkey
Dilution info	-
Notes	-

Species	Vervet monkey
Dilution info	-
Notes	-

ICC

Expected

Species	African green monkey, Rhesus monkey, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, Vervet monkey
Dilution info	-
Notes	-

WB

Tested

Species	Rhesus monkey
Dilution info	-
Notes	In our hands milk blocking is gives superior results to BSA blocking for this product.

Species	Human
Dilution info	-
Notes	In our hands milk blocking is gives superior results to BSA blocking for this product.

Not recommended

Species	Mouse
Dilution info	-
Notes	In our hands milk blocking is gives superior results to BSA blocking for this product.

Species	Rat
Dilution info	-
Notes	In our hands milk blocking is gives superior results to BSA blocking for this product.

Species	African green monkey
Dilution info	-
Notes	-

Species	Vervet monkey

Dilution info	-
Notes	-

IHC-FoFr

Expected

Species	Vervet monkey
Dilution info	-
Notes	(PMID 19837699).

Species	Rhesus monkey
Dilution info	-
Notes	(PMID 19837699).

Species	Human
Dilution info	-
Notes	(PMID 19837699).

Not recommended

Species	Mouse
Dilution info	-
Notes	(PMID 19837699).

Species	Rat
Dilution info	-
Notes	(PMID 19837699).

Species	African green monkey
Dilution info	-
Notes	-

ICC/IF

Expected

Species	Vervet monkey, Rhesus monkey, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, African green monkey
Dilution info	-
Notes	-

IHC-Fr

Expected

Species	Vervet monkey, Rhesus monkey, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse, Rat, African green monkey
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	0.5-1 µg for 10^6 Cells
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Rhesus monkey

Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Rat
Dilution info	-
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	African green monkey
Dilution info	-
Notes	-

Species	Vervet monkey
Dilution info	-
Notes	-

Target data

See full target information LAMP2

Function

Lysosomal membrane glycoprotein which plays an important role in lysosome biogenesis, lysosomal pH regulation and autophagy (PubMed:11082038, PubMed:18644871, PubMed:24880125, PubMed:27628032, PubMed:36586411, PubMed:37390818, PubMed:8662539). Acts as an important regulator of lysosomal lumen pH regulation by acting as a direct inhibitor of the proton channel TMEM175, facilitating lysosomal acidification for optimal hydrolase activity (PubMed:37390818). Plays an important role in chaperone-mediated autophagy, a process that mediates lysosomal degradation of proteins in response to various stresses and as part of the normal turnover of proteins with a long biological half-live (PubMed:11082038, PubMed:18644871, PubMed:24880125, PubMed:27628032, PubMed:36586411, PubMed:8662539). Functions by binding target proteins, such as GAPDH, GPX4, NLRP3 and MLLT11, and targeting them for lysosomal degradation (PubMed:11082038, PubMed:18644871, PubMed:24880125, PubMed:36586411, PubMed:8662539). In the chaperone-mediated autophagy, acts downstream of chaperones, such as HSPA8/HSC70, which recognize and bind

substrate proteins and mediate their recruitment to lysosomes, where target proteins bind LAMP2 (PubMed:36586411). Plays a role in lysosomal protein degradation in response to starvation (By similarity). Required for the fusion of autophagosomes with lysosomes during autophagy (PubMed:27628032). Cells that lack LAMP2 express normal levels of VAMP8, but fail to accumulate STX17 on autophagosomes, which is the most likely explanation for the lack of fusion between autophagosomes and lysosomes (PubMed:27628032). Required for normal degradation of the contents of autophagosomes (PubMed:27628032). Required for efficient MHC class II-mediated presentation of exogenous antigens via its function in lysosomal protein degradation; antigenic peptides generated by proteases in the endosomal/lysosomal compartment are captured by nascent MHC II subunits (PubMed:15894275, PubMed:20518820). Is not required for efficient MHC class II-mediated presentation of endogenous antigens (PubMed:20518820). Isoform LAMP-2C. Modulates chaperone-mediated autophagy. Decreases presentation of endogenous antigens by MHCII. Does not play a role in the presentation of exogenous and membrane-derived antigens by MHCII. (Microbial infection) Supports the FURIN-mediated cleavage of mumps virus fusion protein F by interacting with both FURIN and the unprocessed form but not the processed form of the viral protein F.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Product Specifications

Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) is a mouse monoclonal antibody and is validated for use in Flow Cyt (Intra), ICC, ICC/IF, IHC-FoFr, IHC-Fr, IHC-P, WB in african green monkey, human, rhesus monkey samples. Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) specifically detects LAMP2 (UniProt ID: P13473; Molecular weight: 42kDa) and is sold in 100 µg selling sizes.

Quality and Validation

Abcam's high quality validation processes ensure Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) has high sensitivity and specificity.
Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) has been cited over 196 times in peer reviewed journals and is trusted by the scientific community.

Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) has 19 independent reviews from customers.

Related Products

Antibody clone H4B4 is also available pre-conjugated to a variety of labels for your convenience - PE/Cy5®, PE, Biotin, Alexa Fluor® 488 (ab25223, ab25368, ab25447, ab187607).

REACH authorisation
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	LAMP2 also known as CD107b is an important protein found in the lysosomal membrane. It plays a significant role in lysosome function facilitating autophagy and the degradation of cellular debris. LAMP2 proteins are expressed in most tissues especially in tissues with high lysosomal activity like the liver kidney and heart. The LAMP2 molecule has a molecular weight of approximately 45 kDa. Researchers frequently use LAMP2 staining and LAMP2 marker to study its cellular localization and expression levels.
Biological function summary	LAMP2 is essential for the normal fusion of lysosomes with autophagosomes. This process ensures the recycling of cellular components and maintenance of cellular homeostasis. LAMP2 acts in conjunction with other members of the lysosome-associated membrane protein family LAMP1 and LAMP3 forming part of a larger complex. This interaction is fundamental in managing the degradation pathways within the cell supporting processes such as lipid metabolism and protein turnover.
Pathways	The activity of LAMP2 is critical in the autophagic and degradation pathways within the cell. It particularly interacts in the autophagy-lysosome pathway where it aids the clearance of damaged organelles and protein aggregates. LAMP2 interaction with proteins such as the autophagy-related protein LC3 helps this degradation process. Additionally LAMP2 plays a role in endocytic pathways linking it to proteins involved in vesicle trafficking and membrane fusion.
Associated diseases and disorders	Mutations or deficiencies in LAMP2 are associated with Danon disease a type of lysosomal storage disorder. Patients with Danon disease exhibit symptoms such as cardiomyopathy skeletal myopathy and intellectual disabilities. LAMP2 is also implicated in other lysosomal disorders with a connection to the malfunction of autophagy processes. Its dysfunction is often linked with proteins responsible for cellular degradation affecting the normal homeostatic balance and leading to the accumulation of autophagic substrates.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

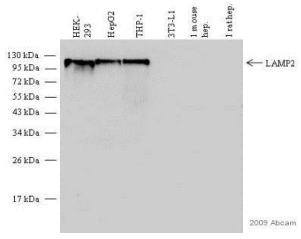
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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13 product images



This image is of an Abreciew submitted by Daniel Rodriguez.

Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

Along with THP-1 macrophages, other human cell lines were loaded, and the 110 kDa mature band for LAMP2 was detected in all the samples. On the other hand, mouse and rat cells were negative. The antibody works really good on human samples, detecting a single 110 kDa band but it's not suitable to use for mouse or rat samples.
All lanes:
Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) at 1/500 dilution

Lane 1:
HEK293 cell lysate at 30 µg

Lane 2:
HepG2 at 30 µg

Lane 3:
THP-1 at 30 µg

Lane 4:
3T3-L1 at 30 µL

Lane 5:
Mouse hepatocytes at 30 µL

Lane 6:
Rat hepatocytes at 30 µL

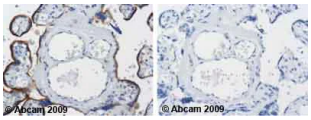
Secondary

All lanes:
HRP conjugated Goat anti-Mouse IgG at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 45 kDa

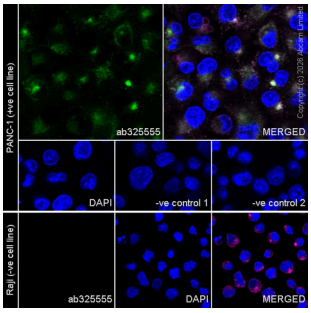
Exposure time: 30s



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-LAMP2 antibody

ab25631 staining human normal placenta. Staining is localized to the cytoplasm.
Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.
Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-LAMP2 antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized PANC-1(human pancreatic epithelioid carcinoma epithelial cell); Raji (human Burkitt's lymphoma B lymphocyte) cells labelling TMEM106B with ab325555 at 1/500 (0.998 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing lysosome staining in PANC-1 cells (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue).

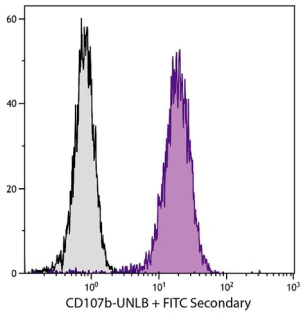
Negative control: Raji.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab25631 Anti-LAMP2 mouse monoclonal antibody - Lysosome Marker was used to counterstain lysosomes at 1/200 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (Magenta).

-ve control 1: ab325555 at a 1/500 dilution followed by ab150120 at a 1/1000 dilution.

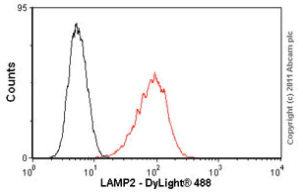
-ve control 2: ab25631 at a 1/200 dilution followed by ab150081 at a 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Flow Cytometry (Intracellular) staining using mouse Anti-LAMP2 antibody

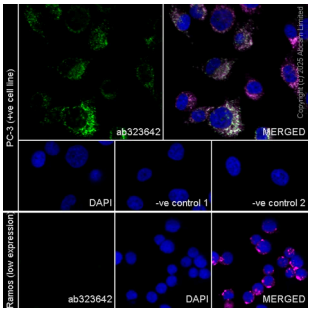
Intracellular Flow Cytometry analysis of Human T lymphocyte cell line Jurkat labeling LAMP2 with ab25631 at 1 µg/10^6 cells dilution (purple). A Goat Anti-Mouse IgG1, Human ads-FITC was used as the secondary antibody. Grey - Isotype Control, Mouse IgG1-UNLB, followed by Goat Anti-Mouse IgG1, Human ads-FITC.



Flow Cytometry (Intracellular) - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Flow Cytometry (Intracellular) staining using mouse Anti-LAMP2 antibody

Overlay histogram showing THP1 cells stained with ab25631 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab25631, 0.5µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in THP1 cells fixed with methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-LAMP2 antibody

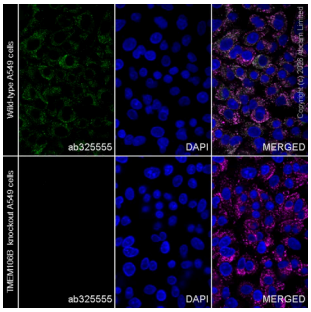
Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized PC-3 (human prostate adenocarcinoma epithelial cell) cells labelling TRPML1/MG-2 with ab323642 at 1/100 (5.07 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/ab150081 1000 2ug/ml dilution (Green).

Confocal image showing lysosomal staining in PC-3 cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).
Low expression: Ramos

ab25631 Anti-LAMP2 mouse monoclonal antibody - Lysosome Marker was used to counterstain tubulin at 1/ab25631 50 2ug/ml dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/ab150081 1000 2ug/ml dilution.

-ve control 1: ab323642 at 1/100 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) antibody at 1/1000 dilution. -ve control 2: ab25631 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

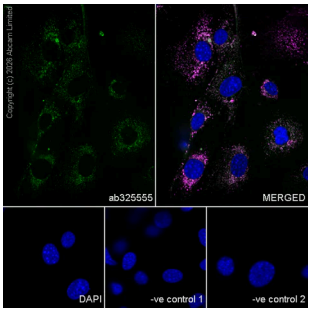
LAMP2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-LAMP2 antibody

Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized Wildtype A549 (wildtype human lung carcinoma epithelial cell); TMEM106B KO A549 (TMEM106B knockout A549), ab273711 cells labelling TMEM106B with ab325555 at 1/500 (0.998 µg/ml) dilution , followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing lysosome staining in wildtype A549 cells (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab25631 Anti-LAMP2 mouse monoclonal antibody - Lysosome Marker was used to counterstain lysosomes at 1/200 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution (Magenta).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunocytochemistry/ Immunofluorescence staining of 3T3-L1 (mouse embryonic fibroblast) using mouse Anti-LAMP2 antibody

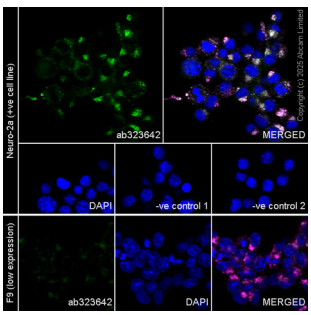
Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized 3T3-L1 (mouse embryonic fibroblast) cells labelling TMEM106B with ab325555 at 1/500 (0.998 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing lysosome staining in 3T3-L1 cells (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab25631 Anti-LAMP2 mouse monoclonal antibody - Lysosome Marker was used to counterstain lysosomes at 1/200 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (Magenta).

-ve control 1: ab325555 at a 1/500 dilution followed by ab150120 at a 1/1000 dilution.

-ve control 2: ab25631 at a 1/200 dilution followed by ab150081 at a 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-LAMP2 antibody

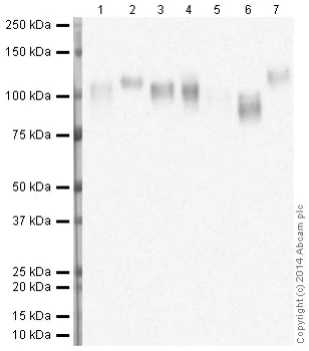
Immunofluorescent analysis of 100% methanol-fixed, 0.1% TritonX-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labelling TRPML1/MG-2 with ab323642 at 1/100 (5.07 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/ab150081 1000 2ug/ml dilution (Green).

Confocal image showing lysosomal staining in Neuro-2a cell line (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).
Low expression: F9

ab25631 Anti-LAMP2 mouse monoclonal antibody - Lysosome Marker was used to counterstain tubulin at 1/50 2ug/ml dilution (Magenta). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/ 1000 2ug/ml dilution.

-ve control 1: ab323642 at 1/100 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) antibody at 1/1000 dilution. -ve control 2: ab25631 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution.



Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Western blot staining using mouse Anti-LAMP2 antibody

This blot was produced using a 4-12% Bis-Tris gel under the MOPS buffer system under denaturing, reducing conditions. The gel was run at 200V for 60 minutes before being transferred onto a nitrocellulose membrane at 30V for 70 minutes. After transfer, the membrane was blocked for an hour in 3% milk before being incubated overnight at 4°C with mouse monoclonal [H4B4] to LAMP2 (ab25631; diluted 1:5000). Antibody binding was detected using peroxidase labelled goat anti-mouse IgG (ab97040; diluted 1:50000) for an hour at room temperature and visualised using ECL development solution.
All lanes:
Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) at 1/500 dilution

Lane 1:
HeLa cell lysate at 20 µg

Lane 2:
Jurkat cell lysate at 20 µg

Lane 3:
Human liver lysate at 20 µg

Lane 4:
Human liver membrane fraction lysate at 20 µg

Lane 5:
Human skeletal muscle lysate at 20 µg

Lane 6:
Human brain lysate at 20 µg

Lane 7:
Human kidney lysate at 20 µg

Secondary

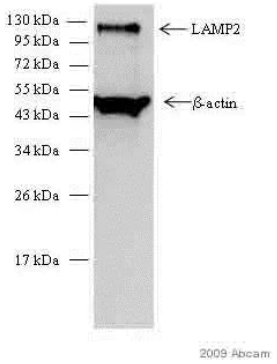
All lanes:
Western blot - Goat Anti-Mouse IgG H&L (HRP) preadsorbed (ab97040) at 1/50000 dilution

Performed under reducing conditions.

Predicted band size: 45 kDa

Observed band size: 100 kDa, 110 kDa, 120 kDa

Exposure time: 20min



This image was kindly supplied by Daniel Rodriguez by customer review

Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

Primary antibody incubated for 12 hours at 4°C.
Gel running conditions: 12%
Blocked with 5% milk for 1 hour at 25°C.
All lanes:
Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631) at 1/500 dilution

All lanes:
whole cell lysate prepared from THP-1 macrophages at 30 µg

Secondary

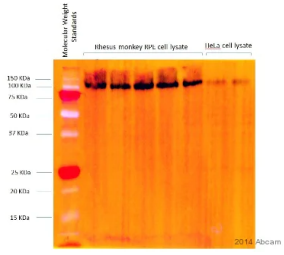
All lanes:
Goat anti-mouse IgG conjugated to HRP at 1/2000 dilution

Developed using the ECL technique.

Predicted band size: 45 kDa

Observed band size: 110 kDa

Exposure time: 30s



This image is courtesy of an anonymous customer review

Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Western blot staining using mouse Anti-LAMP2 antibody

Western blot analysis of Rhesus monkey primary retinal pigmented epthelium whole cell lysate and HeLa cell whole cell lysate (20µg/lane) labelling LAMP2 with ab25631 at 1/1000. An alkaline phosphatase-conjugated rabbit anti-mouse IgG was used as the secondary antibody.
All lanes:
Western blot - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

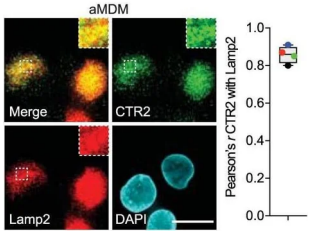
Performed under reducing conditions.

Predicted band size: 45 kDa

Observed band size: 110 kDa

Exposure time: 1s

e



Immunocytochemistry/ Immunofluorescence - Anti-LAMP2 antibody [H4B4] - Lysosome Marker (ab25631)

LAMP2 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-LAMP2 antibody

Immunocytochemistry-immunofluorescence using Anti-LAMP2 antibody [H4B4] - Lysosome Marker, ab25631. Publication image from Solier, S. et al., 2023, Nature, 37100912. Legend direct from paper.

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CD44 mediates the uptake of metals in inflammatory macrophages.a, ICP-MS of cellular metals in aMDM treated with an anti-CD44 antibody RG7356 during activation (n = 7 donors). b, ICP-MS of cellular metals in aMDM supplemented with HA (0.6-1 MDa) or permethylated (meth-) HA during activation (n = 6 donors). c, Western blots of hyaluronan synthases (HAS) (n = 6 donors) and ATP7A/B (n = 8 donors) in MDM. d, Fluorescence microscopy of a lysosomal copper(II) probe (Lys-Cu) in aMDM under CD44 knockdown conditions (n = 5 donors). e, Fluorescence microscopy of CTR2 and Lamp2 in aMDM (n = 4 donors). f, Fluorescence microscopy of a lysosomal copper(II) probe (Lys-Cu) in aMDM under CTR2 knockdown conditions (n = 5 donors). For d–f, Scale bars, 10 µm. For a, c, d and f two-sided Mann-Whitney test. For b, Kruskal-Wallis test with Dunn’ s post-test. Box plots: boxes represent interquartile range and median, and whiskers indicate the minimum and maximum values. Each colored dot represents a distinct donor for a given panel.Source data

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