Leader in Biomolecular Solutions for Life Science

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[KD Validated] LAMP1/CD107a Rabbit PolymAb®

Catalog No.: A24804PM 1 Publications

Basic Information

Observed MW
90-120 kDa

Calculated MW
43 kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Human, Mouse

Background

Enables protein domain specific binding activity. Involved in protein stabilization. Located in several cellular components, including cytoplasmic vesicle; sarcolemma; and vacuole. Is expressed in several structures, including 1-cell stage embryo; central nervous system; craniocervical region bone; extraembryonic component; and gut. Orthologous to human LAMP1 (lysosomal associated membrane protein 1).

Recommended Dilutions

WB	1:5000-1:30000
IF/ICC	1:200 - 1:800
IHC-P	1:400 - 1:4000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
16783/3916

Swiss Prot
P11438/P11279

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
P2B; Perk; LGP-A; CD107a; Lamp-1; LGP-120

Contact

400-999-6126

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www.abclonal.com.cn

Product Information

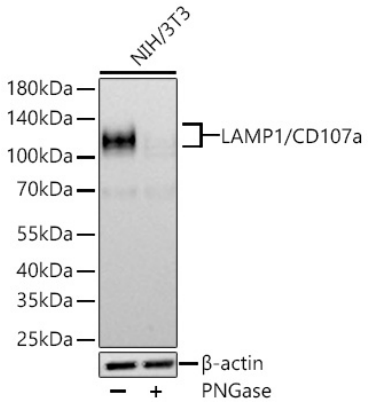
Source
Rabbit

Isotype
IgG

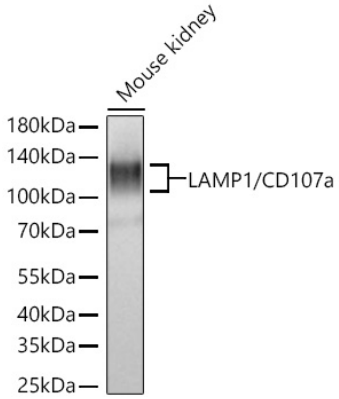
Purification
Affinity purification

Storage
Store at -20℃

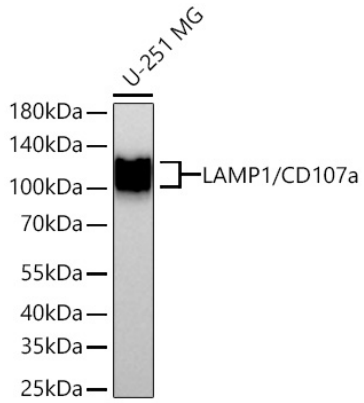
Validation Data



Western blot analysis of lysates from NIH/3T3 cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at 1:5000 dilution incubated at room temperature for 1.5 hours. NIH/3T3 cells were treated with PNGase F(1μL) at 37℃ for 3 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

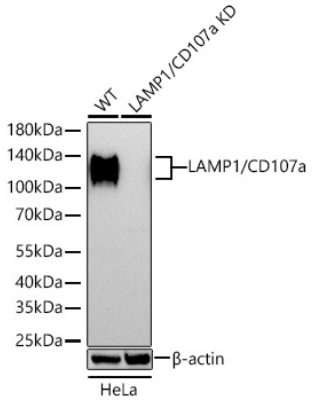


Western blot analysis of lysates from Mouse kidney using [KD Validated] LAMP1/CD107a Rabbit PolymAb® at 1:5000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.

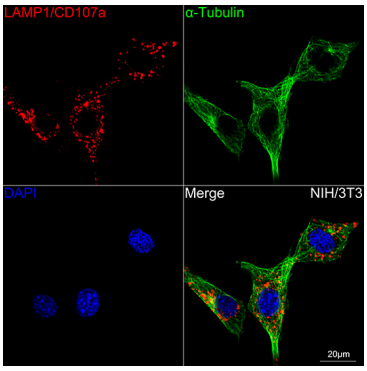


Western blot analysis of lysates from U-251 MG cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at 1:5000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.

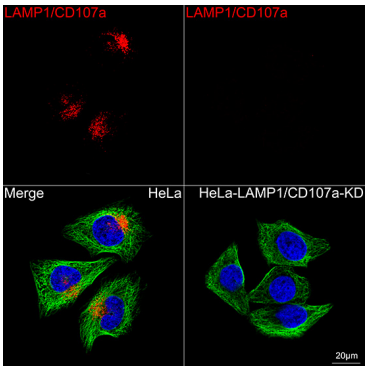
Validation Data



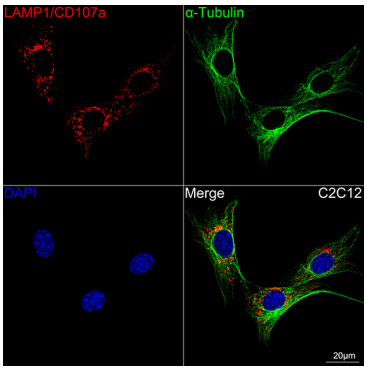
Western blot analysis of lysates from wild type (WT) and LAMP1/CD107a knockdown (KD) HeLa cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at 1:5000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



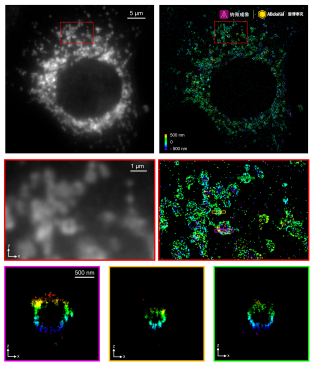
Confocal imaging of NIH/3T3 cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



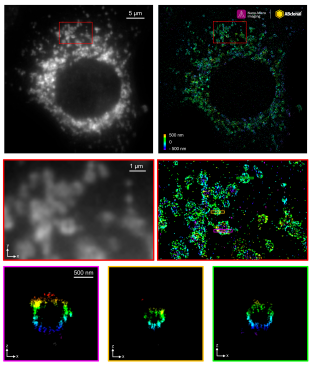
Confocal imaging of HeLa cells and LAMP1/CD107a knockdown(KD) HeLa cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Confocal imaging of C2C12 cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



The STORM super-resolution (SR) imaging of NIH/3T3 cells using [KD Validated] LAMP1/CD107a Rabbit PolymAb® A24804PM, Abclonal at dilution of 1:200 with 3% paraformaldehyde (PFA) +0.1% glutaraldehyde (GA) fixation. The immunostaining was performed by Full



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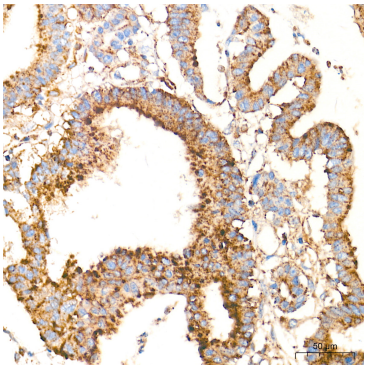

Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data

Automatic Immunofluorescence Workflow System (Workflow Ultra300, Nano-Micro imaging, China). Image was performed with Single-Molecule Localization Super-Resolution Microscopy (STORM Ultra300, Nano-Micro imaging, China). We acknowledge Nano-Micro imaging Biotechnology Co., Ltd. (□□□□□□□□□□□□□□□) in SR image processing and kindly providing this image.

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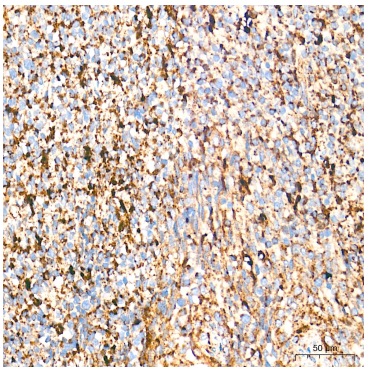
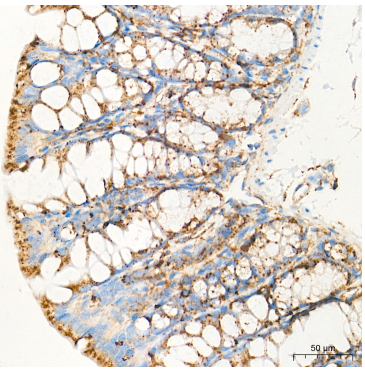


Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse colon tissue using [KD Validated] LAMP1/CD107a Rabbit PolymAb® (A24804PM) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.