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[KO Validated] LAMP2 Rabbit mAb

Catalog No.: A28664 KO Validated Recombinant

Basic Information

Observed MW
100-130 kDa

Calculated MW
46 kDa

Category
Primary antibody

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

Cross-Reactivity
Human, Mouse

CloneNo number
ARC63617

Background

Enables protein domain specific binding activity. Involved in several processes, including autophagosome maturation; protein stabilization; and protein targeting to lysosome involved in chaperone-mediated autophagy. Acts upstream of or within muscle cell cellular homeostasis. Located in bounding membrane of organelle. Is active in lysosome. Is expressed in several structures, including central nervous system; egg cylinder; heart valve; oocyte; and sensory organ. Used to study Danon disease. Human ortholog(s) of this gene implicated in Danon disease and hypertrophic cardiomyopathy. Orthologous to human LAMP2 (lysosomal associated membrane protein 2).

Recommended Dilutions

WB	1:5000 - 1:50000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:2500 - 1:10000
IHC-P	1:200 - 1:800
FC	1:100-1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
16784

Swiss Prot
P17047

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

Synonyms
Mac3; LGP-B; CD107b; Lamp-2; Lamp II; Lamp-2a; Lamp-2b; Lamp-2c

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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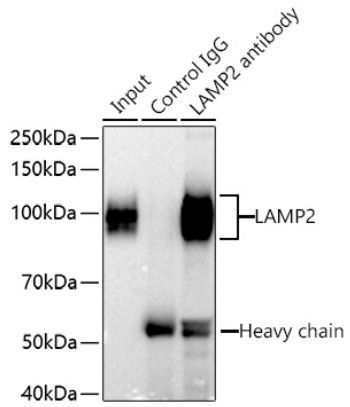
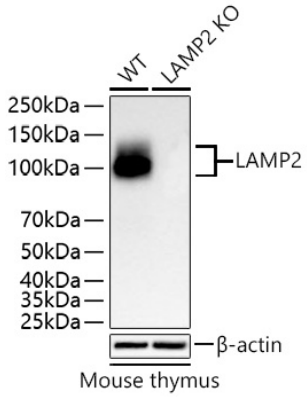
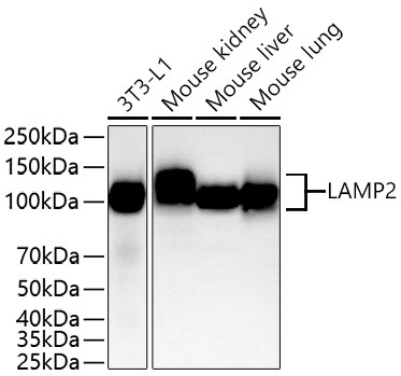
Validation Data



Immunoprecipitation of LAMP2 from 300 µg extracts of NIH/3T3 cells was performed using 1 µg of [KO Validated] LAMP2 Rabbit mAb (A28664). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] LAMP2 Rabbit mAb (A28664) at a dilution of 1:5000.

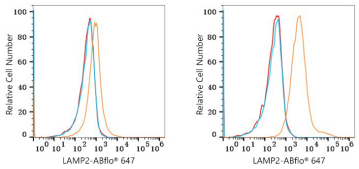


Western blot analysis of lysates from wild type (WT) and LAMP2 knockout (KO) Mouse thymus using [KO Validated] LAMP2 Rabbit mAb (A28664) at 1:26000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.

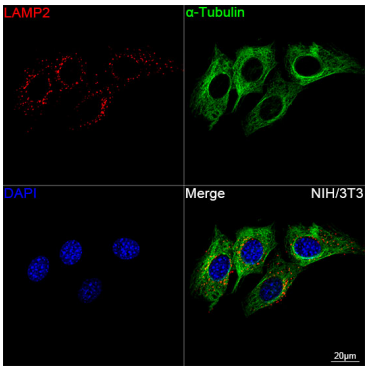


Western blot analysis of various lysates using [KO Validated] LAMP2 Rabbit mAb (A28664) at 1:26000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30 s.

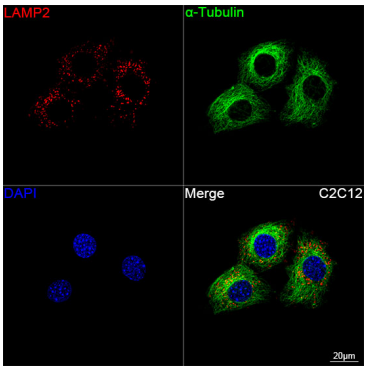
Validation Data



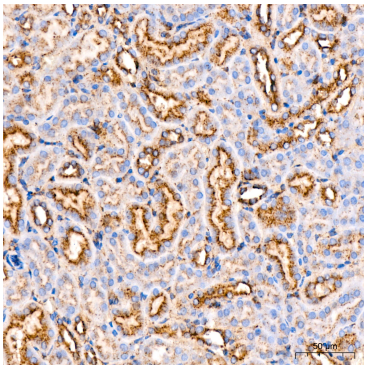
Flow cytometry: 1X10^6 NIH/3T3-CD107b-shRNA cells (negative control,left) and NIH/3T3-scramble cells (right) were surface-stained with [KO Validated] LAMP2 Rabbit mAb (A28664,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by ABflo® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



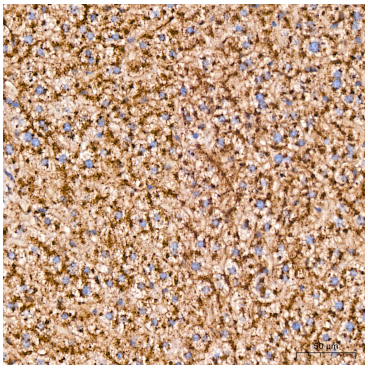
Confocal imaging of NIH/3T3 cells using [KO Validated] LAMP2 Rabbit mAb (A28664, dilution 1:5000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation 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.



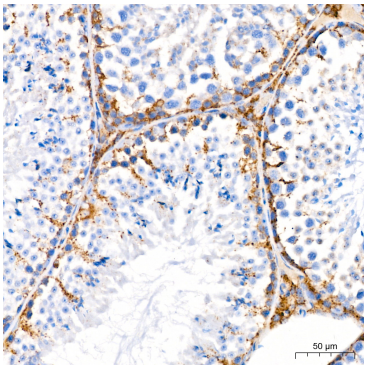
Confocal imaging of C2C12 cells using [KO Validated] LAMP2 Rabbit mAb (A28664, dilution 1:5000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation 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.



Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using [KO Validated] LAMP2 Rabbit mAb (A28664) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using [KO Validated] LAMP2 Rabbit mAb (A28664) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KO Validated] LAMP2 Rabbit mAb (A28664) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.