[KD Validated] LAMP1/CD107a Rabbit mAb

Catalog No.: A21194

Recombinant | 8 Publications

Basic Information

Observed MW
42 kDa, 90-120 kDa

Calculated MW
38kDa/45kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, IF-F, IF-P, IHC-P, FC (intra), ELISA

Cross Reactivity
Human

Clone No.
ARC52154

Background

The protein encoded by this gene is a member of a family of membrane glycoproteins. This glycoprotein provides selectins with carbohydrate ligands. It may also play a role in tumor cell metastasis.

Recommended Dilutions

WB	1:5000 - 1:30000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:200 - 1:2000
IF-F	
IF-P	
IHC-P	1:500 - 1:5000
FC (intra)	1:100 - 1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3916

Swiss-Prot
P11279

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

Synonyms
LAMPA; CD107a; LGP120

Contact

400-999-6126

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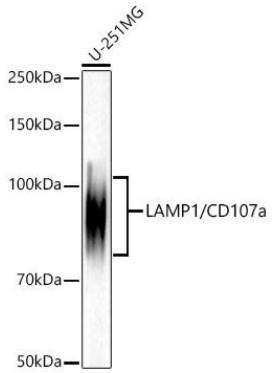
Product Information

Source	Isotype	Purity
Rabbit	IgG	Affinity purification

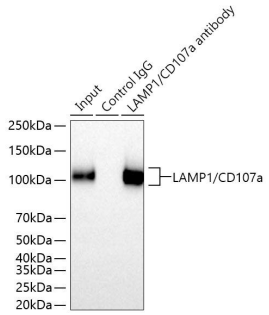
Storage

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.

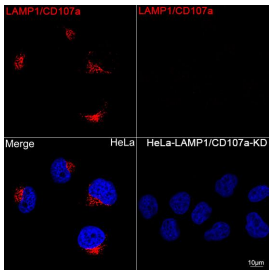
Validation Data



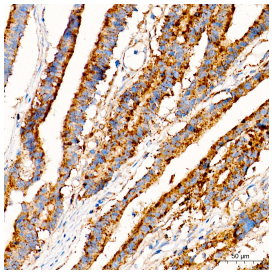
Western blot analysis of lysates from U-251MG cells, using [KD Validated] LAMP1 /CD107a Rabbit mAb (A21194) at 1:10000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.



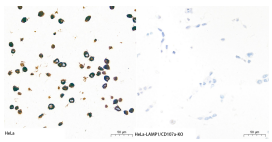
Immunoprecipitation of LAMP1/CD107a from 300 µg extracts of HeLa cells was performed using 1 µg of [KD Validated] LAMP1/CD107a Rabbit mAb (A21194). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at a dilution of 1:6000.



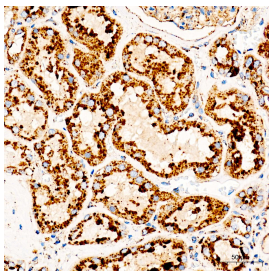
Confocal imaging of HeLa and HeLa-LAMP1-KD cells using [KD Validated] LAMP1 /CD107a Rabbit mAb (A21194,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 100x.



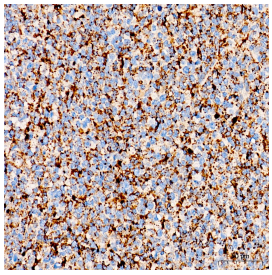
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at a dilution of 1: 2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



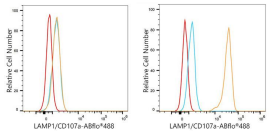
Immunohistochemistry analysis of paraffin-embedded HeLa and HeLa-LAMP1-KO cells using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at a dilution of 1: 2200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



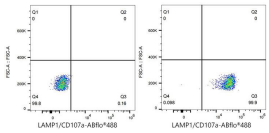
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



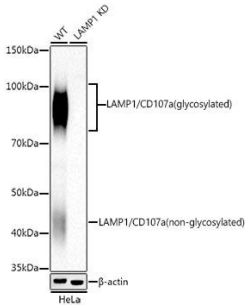
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer(pH 9.0) prior to IHC staining.



Flow cytometry: 1X10^6 knockdown (KD) HeLa cells (negative control,left) and HeLa cells (right) were intracellularly-stained with [KD Validated] LAMP1/CD107a Rabbit mAb (A21194,2.5 µg/mL,orange line) or ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,blue line), followed by FITC conjugated goat anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 HeLa cells were intracellularly-stained with ABflo® 488 Rabbit IgG isotype control (A22069,5 µl/Test,left) or [KD Validated] LAMP1/CD107a Rabbit mAb (A21194,2.5 µg/mL,right).



Western blot analysis of lysates from wild type (WT) and LAMP1 knockdown (KD) HeLa cells, using [KD Validated] LAMP1/CD107a Rabbit mAb (A21194) at 1:10000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 20s.