bs-1970R

[Primary Antibody]

LAMP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3916 **SWISS:** P11279

Target: LAMP1

Immunogen: KLH conjugated synthetic peptide derived from human LAMP-1: 301-417/417.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Lysosome associated membrane protein (LAMP1), also known as lgp120 or lgpA, is a type 1 integral membrane protein that is transported from trans Golgi networks to endosomes and then lysosomes. Upon cell activation, LAMP1 transfer to the plasma membrane is dependent on a carboxyl terminal tyrosine based motif (YXXI). Perturbation in the spacing between the tyrosine based motif relative to the membrane abolishes lysosome localization of LAMP1. This mutant protein then cycles between the plasma membrane and the endosome. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMCs to the site of inflammation.

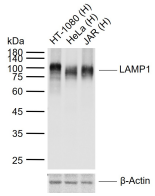
Applications: **WB** (1:500-1:2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)
ICC/IF (1:50-200)

Reactivity: Human

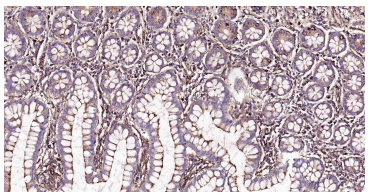
Predicted MW.: 42 kDa

Subcellular Location: Cell membrane ,Cytoplasm

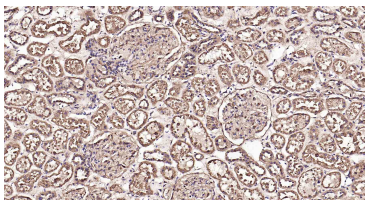
VALIDATION IMAGES



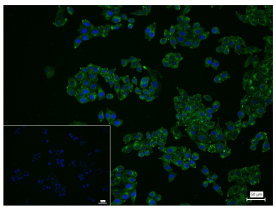
Sample: Lane 1: Human HT-1080 cell lysates Lane 2: Human HeLa cell lysates Lane 3: Human JAR cell lysates Primary: Anti-LAMP1 (bs-1970R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: kDa Observed band size: 95 kDa



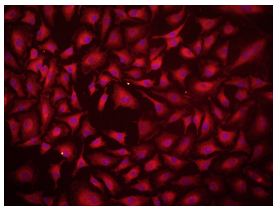
Paraformaldehyde-fixed, paraffin embedded Human Small Intestine; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with LAMP1 Polyclonal Antibody, Unconjugated (bs-1970R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



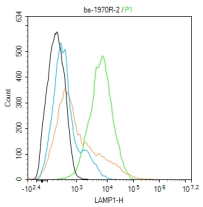
Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with LAMP1 Polyclonal Antibody, Unconjugated (bs-1970R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed MCF-7 (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (LAMP1) polyclonal Antibody, unconjugated (bs-1970R) 1:200, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG



Tissue/cell: A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (LAMP1) Polyclonal Antibody,



Blank control:Jurkat. Primary Antibody (green line): Rabbit Anti-LAMP1 antibody (bs-1970R) Dilution: 2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control（orange

antibody (green, bs-0295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

Unconjugated (bs-1970R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-cy3) at 37°C for 90 minutes, DAPI (5ug/ml, blue, C-0033) was used to stain the cell nuclei.

line）：Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.11]** Sun, Ming-Xia, et al. "Porcine reproductive and respiratory syndrome virus induces autophagy to promote virus replication." Autophagy 8.10 (2012): 1434-1447. ICC ;="Monkey". 22739997
- **[IF=9.3]** Zhang Zhixin. et al. Glutamine metabolism modulates microglial NLRP3 inflammasome activity through mitophagy in Alzheimer’ s disease. J NEUROINFLAMM. 2024 Dec;21(1):1-21 IF ;Mouse. 39407211
- **[IF=8.322]** Peng, Jialing. et al. Morphine-induced microglial immunosuppression via activation of insufficient mitophagy regulated by NLRX1. J NEUROINFLAMM. 2022 Dec;19(1):1-21 ICC ;Mouse. 35414088
- **[IF=7.7]** Jing Lv. et al. miR-221-5p_R-4 regulates internalized trehalose-induced autophagy by targeting NRBF2 in porcine granulosa cells. INT J BIOL MACROMOL. 2024 Oct;:136718 WB ;Porcine. 39447807
- **[IF=8.4]** Dixit, Saurabh, et al. "Caveolin-mediated endocytosis of the Chlamydia M278 outer membrane peptide encapsulated in poly (lactic acid)-Poly (ethylene glycol) nanoparticles by mouse primary dendritic cells enhances specific immune effectors mediated by MHC class II and CD4+ T cells." Biomaterials (2017). ICC ;="Mouse". 29324305