

LAMP1 Recombinant Antibody [PSH07-39] - Mouse IgG1 (Chimeric) - BSA and Azide free

**HA610400**



<b>Product Type:</b>	Recombinant Chimeric Antibody, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Tissue
<b>Molecular Wt:</b>	Predicted band size: 44 kDa
<b>Clone number:</b>	PSH07-39

**Description:** Lysosomal-associated membrane protein 1 (LAMP-1) also known as lysosome-associated membrane glycoprotein 1 and CD107a (Cluster of Differentiation 107a), is a protein that in humans is encoded by the LAMP1 gene. The human LAMP1 gene is located on the long arm (q) of chromosome 13 at region 3, band 4 (13q34). Lysosomal-associated membrane protein 1 is a glycoprotein from a family of Lysosome-associated membrane glycoproteins. The LAMP-1 glycoprotein is a type I transmembrane protein which is expressed at high or medium levels in at least 76 different normal tissue cell types. It resides primarily across lysosomal membranes, and functions to provide selectins with carbohydrate ligands. CD107a has also been shown to be a marker of degranulation on lymphocytes such as CD8+ and NK cells, and may also play a role in tumor cell differentiation and metastasis.

**Immunogen:** Synthetic peptide within mouse LAMP1 aa 371-406.

**Subcellular location:** Lysosome membrane, Endosome membrane, Late endosome membrane, Cell membrane, Cytolytic granule membrane.

**Database links:** SwissProt: P11279 Human | P11438 Mouse | P14562 Rat

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

Technical:0086-571-89986345

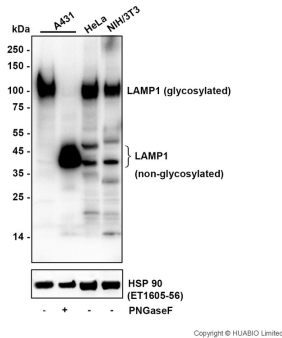
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## Images

**Fig1:** Western blot analysis of LAMP1 on different lysates with Rabbit anti-LAMP1 antibody (HA610400) at 1/5,000 dilution.

Lane 1: A431 (Human epidermoid carcinoma skin squamous cells)  
Lane 2: A431 treated with PNGaseF  
Lane 3: HeLa (Human cervical adenocarcinoma cells)  
Lane 4: NIH/3T3 (Mouse fibroblasts)



Lysates/proteins at 10 µg/Lane.

Exposure time: 12 seconds; ECL: K1801

Expression pattern of LAMP1 protein in A431 is consistent with the literature (PMID: 28456975).

Blocking: 5% NFDm/TBST, 1 hour at room temperature

Primary antibody: HA610400, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Mouse IgG-HRP (HA1006), 1/50,000 in 5% NFDm/TBST, 1 hour at room temperature

Predicted band size: 44 kDa

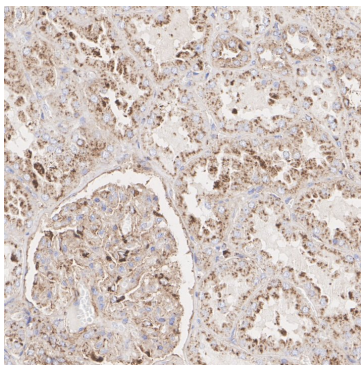
Observed band size: 110/44 kDa

**Fig2:** Application: Immunohistochemistry (IHC-P)

Species: Human

Tissue: Kidney

Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610400, 1/2,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.

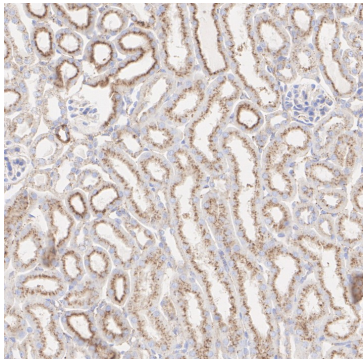
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**Fig3:** Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

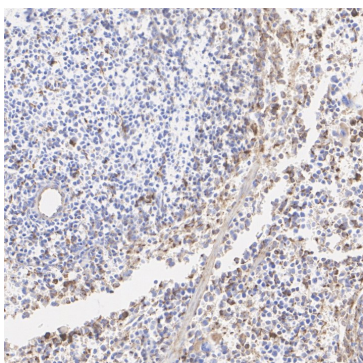
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610400, 1/5,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.



**Fig4:** Application: Immunohistochemistry (IHC-P)

Species: Mouse

Tissue: Spleen

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

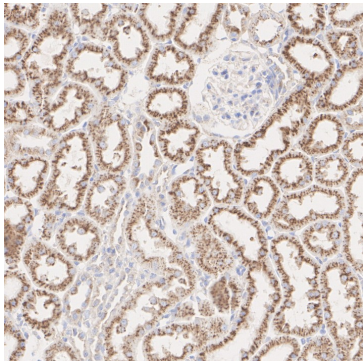
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610400, 1/5,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.



**Fig5:** Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Kidney

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

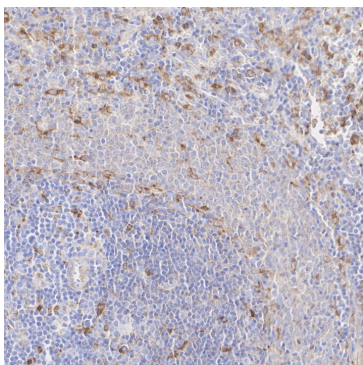
Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610400, 1/5,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.



**Fig6:** Application: Immunohistochemistry (IHC-P)

Species: Rat

Tissue: Spleen

Sample: Paraffin-embedded section

Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× TBST

Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes at room temperature.

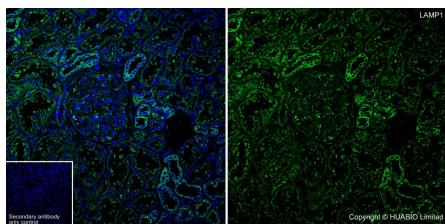
Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.

Primary antibody: HA610400, 1/5,000, 1 hour at room temperature.

Secondary antibody: HA1120, 20 minutes at room temperature.

**Fig7:** Application: Immunofluorescence (IF-tissue)

Species: Human  
 Tissue: Kidney  
 Sample: Paraffin-embedded section

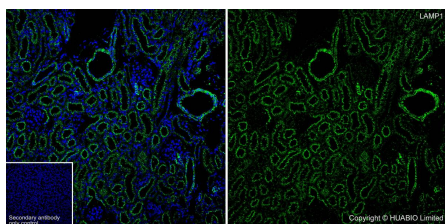


Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× PBS  
 Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes.  
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.  
 Primary antibody: HA610400, 1/1,000, overnight at 4°C.  
 Secondary antibody: Goat Anti-Mouse IgG (iFluor™ 488, HA1125), 1.5 hours at room temperature.

**Fig8:** Application: Immunofluorescence (IF-tissue)

Species: Mouse  
 Tissue: Kidney  
 Sample: Paraffin-embedded section

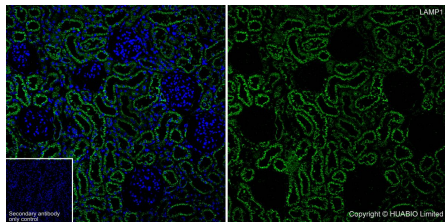


Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× PBS  
 Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes.  
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.  
 Primary antibody: HA610400, 1/1,000, overnight at 4°C.  
 Secondary antibody: Goat Anti-Mouse IgG (iFluor™ 488, HA1125), 1.5 hours at room temperature.

**Fig9:** Application: Immunofluorescence (IF-tissue)

Species: Rat  
 Tissue: Kidney  
 Sample: Paraffin-embedded section



Antigen retrieval: Heat-mediated, Tris-EDTA buffer (pH 9.0), 20 minutes at 95°C.

Wash buffer: 1× PBS  
 Endogenous peroxidase blocking: 3% H<sub>2</sub>O<sub>2</sub>, 10 minutes.  
 Blocking: 1% BSA + 10% normal goat serum, 10 minutes at room temperature.  
 Primary antibody: HA610400, 1/1,000, overnight at 4°C.  
 Secondary antibody: Goat Anti-Mouse IgG (iFluor™ 488, HA1125), 1.5 hours at room temperature.

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**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

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### Background References

1. Chaudhry N et al. Lamp1 mediates lipid transport, but is dispensable for autophagy in Drosophila. *Autophagy*. 2022 Oct
2. Sanmarco LM et al. Gut-licensed IFN $\gamma$ (+) NK cells drive LAMP1(+)TRAIL(+) anti-inflammatory astrocytes. *Nature*. 2021 Feb

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