

# Anti-LAMP2 Antibody [D3-D8-D3-R]

HA601192



<b>Product Type:</b>	Recombinant Mouse monoclonal IgG1, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 45 kDa
<b>Clone number:</b>	D3-D8-D3-R

**Description:** Plays an important role in chaperone-mediated autophagy, a process that mediates lysosomal degradation of proteins in response to various stresses and as part of the normal turnover of proteins with a long biological half-life. Functions by binding target proteins, such as GAPDH and MLLT11, and targeting them for lysosomal degradation. Plays a role in lysosomal protein degradation in response to starvation (By similarity). Required for the fusion of autophagosomes with lysosomes during autophagy. Cells that lack LAMP2 express normal levels of VAMP8, but fail to accumulate STX17 on autophagosomes, which is the most likely explanation for the lack of fusion between autophagosomes and lysosomes. Required for normal degradation of the contents of autophagosomes. Required for efficient MHCII-mediated presentation of exogenous antigens via its function in lysosomal protein degradation; antigenic peptides generated by proteases in the endosomal/lysosomal compartment are captured by nascent MHCII subunits. Is not required for efficient MHCII-mediated presentation of endogenous antigens.

**Immunogen:** Recombinant protein corresponding to N terminal Human LAMP2.

**Positive control:** HeLa cell lysate, Jurkat cell lysate, HepG2 cell lysate, HUVEC cell lysate, JAR cell lysate, HEK-293 cell lysate, THP-1 cell lysate, human kidney tissue, human liver tissue.

**Subcellular location:** Cell membrane, Cytoplasmic vesicle, Endosome, Lysosome, Membrane.

**Database links:** SwissProt: P13473 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:5,000

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

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

**Purity:** Protein A affinity purified.

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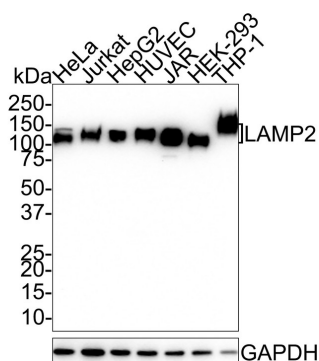
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## Images

**Fig1:** Western blot analysis of LAMP2 on different lysates with Mouse anti-LAMP2 antibody (HA601192) at 1/1,000 dilution.

Lane 1: HeLa cell lysate  
 Lane 2: Jurkat cell lysate  
 Lane 3: HepG2 cell lysate  
 Lane 4: HUVEC cell lysate  
 Lane 5: JAR cell lysate  
 Lane 6: HEK-293 cell lysate  
 Lane 7: THP-1 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 45 kDa  
 Observed band size: 110 kDa

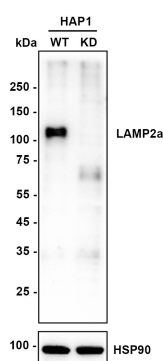
Exposure time: 3 minute;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601192) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

**Fig2:** Western blot analysis of LAMP2 on different lysates with Mouse anti-LAMP2 antibody (HA601192) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate  
 Lane 2: HAP1-LAMP2 KD cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 45 kDa  
 Observed band size: 110 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601192) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

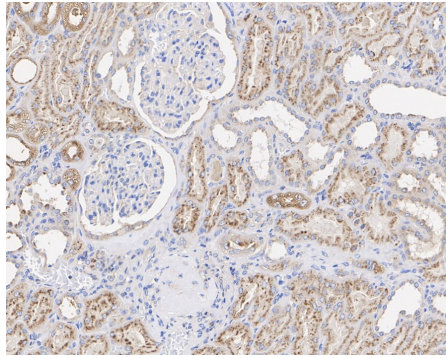
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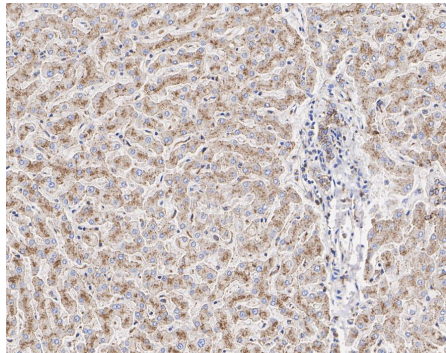
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human kidney tissue with Mouse anti-LAMP2 antibody (HA601192) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601192) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Immunohistochemical analysis of paraffin-embedded human liver tissue with Mouse anti-LAMP2 antibody (HA601192) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA601192) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

### Background References

1. Cuervo A.M.et.al.A receptor for the selective uptake and degradation of proteins by lysosomes.Science 273:501-503(1996).

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