

#9091  
Store at -20C**LAMP1 (D2D11) XP<sup>®</sup> Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IP, IHC-P, IF-IC, FC-FP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42 (non- glycosylated), 90- 120 (glycosylated)	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P11279	<b>Entrez-Gene Id:</b> 3916
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Immunocytochemistry)  
Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:1000  
1:100  
1:100 - 1:400  
1:100 - 1:400  
1:100 - 1:400

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier-free (BSA and azide free) version of this product see product #52252.

**Specificity/Sensitivity**

LAMP1 (D2D11) XP<sup>®</sup> Rabbit mAb recognizes endogenous levels of total LAMP1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment of human LAMP1 protein.

**Background**

Lysosome-associated membrane protein 1 and 2 (LAMP1 and LAMP2) are two abundant lysosomal membrane proteins (1,2). Both are transmembrane proteins and are heavily glycosylated at the amino-terminal luminal side of the lysosomal inner leaflet, which protects the proteins from proteolysis (3). The carboxy terminus of LAMP1 is exposed to the cytoplasm and contains a tyrosine sorting motif that targets LAMP to lysosomal membranes (4). LAMP1 and LAMP2 are 37% homologous in their protein sequences. Both LAMP1 and LAMP2 are involved in regulating lysosomal motility during lysosome-phagosome fusion and cholesterol trafficking (5,6).

**Background References**

1. Eskelinen, E.L. et al. (2003) *Trends Cell Biol* 13, 137-45.
2. Fukuda, M. (1991) *J Biol Chem* 266, 21327-30.
3. Kundra, R. and Kornfeld, S. (1999) *J Biol Chem* 274, 31039-46.
4. Rohrer, J. et al. (1996) *J Cell Biol* 132, 565-76.
5. Huynh, K.K. et al. (2007) *EMBO J* 26, 313-24.
6. Eskelinen, E.L. et al. (2004) *Mol Biol Cell* 15, 3132-45.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key**

**H:** Human **Mk:** Monkey

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