

#15665 Store at -20C

LAMP1 (D4O1S) Mouse mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H	Endogenous	42 (non-glycosylated), 90-120 (glycosylated)	Mouse IgG1	#P11279	3916

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:50 - 1:100

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 #51774.

Specificity / Sensitivity

LAMP1 (D4O1S) Mouse 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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