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#15665**LAMP1 (D4O1S) Mouse mAb**

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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 42 (non-glycosylated), 90-120 (glycosylated)	Source/Isotype: Mouse IgG1	UniProt ID: #P11279	Entrez-Gene Id: 3916
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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	<ol style="list-style-type: none"> 1. Eskelinen, E.L. et al. (2003) <i>Trends Cell Biol</i> 13, 137-45. 2. Fukuda, M. (1991) <i>J Biol Chem</i> 266, 21327-30. 3. Kundra, R. and Kornfeld, S. (1999) <i>J Biol Chem</i> 274, 31039-46. 4. Rohrer, J. et al. (1996) <i>J Cell Biol</i> 132, 565-76. 5. Huynh, K.K. et al. (2007) <i>EMBO J</i> 26, 313-24. 6. Eskelinen, E.L. et al. (2004) <i>Mol Biol Cell</i> 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	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)
Cross-Reactivity Key	H: Human
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