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## LAMP1 (C54H11) Rabbit mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H M 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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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	LAMP1 (C54H11) Rabbit mAb detects endogenous levels of total LAMP1 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Ser140 of human LAMP1.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Eskelinen, E.L. et al. (2003) <i>Trends Cell Biol</i> 13, 137-45.</li> <li>2. Fukuda, M. (1991) <i>J Biol Chem</i> 266, 21327-30.</li> <li>3. Kundra, R. and Kornfeld, S. (1999) <i>J Biol Chem</i> 274, 31039-46.</li> <li>4. Rohrer, J. et al. (1996) <i>J Cell Biol</i> 132, 565-76.</li> <li>5. Huynh, K.K. et al. (2007) <i>EMBO J</i> 26, 313-24.</li> <li>6. Eskelinen, E.L. et al. (2004) <i>Mol Biol Cell</i> 15, 3132-45.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>Mk:</b> Monkey	
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