Revision 1

Store at -20C

#3243

LAMP1 (C54H11) Rabbit mAb

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M Mk	Endogenous	42 (non-glycosylated), 90-120 (glycosylated)	Rabbit IgG	#P11279	3916

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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.

Specificity/Sensitivity

LAMP1 (C54H11) Rabbit mAb detects endogenous levels of total LAMP1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding Ser140 of human LAMP1.

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

Cross-Reactivity Key

H: Human **M:** Mouse **Mk:** Monkey

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Limited Uses

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