#12284 Store at -20°C

LAMTOR4/C7orf59 (D6A4V) Rabbit mAb

☑ 100 µl
(10 western blots)

Cell Signaling TECHNOLOGY®

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Entrez-Gene ID #389541
UniProt ID #Q0VGL1

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IF-IC	H, M, R, Mk	11 kDa	Rabbit IgG**
Endogenous			

Background: Late endosomal/lysosomal adaptor and MAPK and MTOR activator 4 (LAMTOR4) is an essential component of the ragulator protein complex that is encoded by the *C7orf59* gene (1). The ragulator complex also includes LAMTOR1/C11orf59, LAMTOR2/ROBLD3, LAMTOR3/MAPKSP1, and HBXIP (1,2). This pentameric protein complex localizes to the lysosomal membrane and is essential for the lysosomal localization of Rag GTPases and mTORC1 as well as the subsequent activation of mTORC1 in response to amino acid signaling (1-3).

Specificity/Sensitivity: LAMTOR4/C7orf59 (D6A4V) Rabbit mAb recognizes endogenous levels of total LAMTOR4/C7orf59 protein.

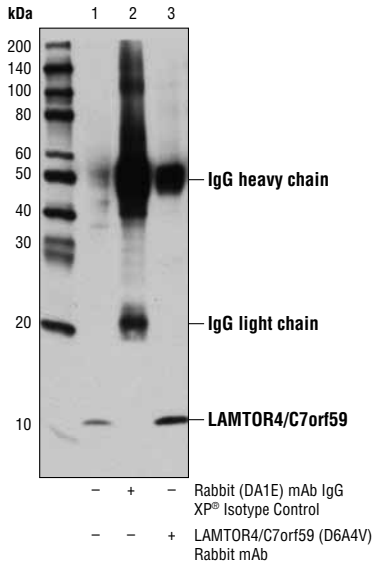
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human LAMTOR4/C7orf59 protein.

Background References:

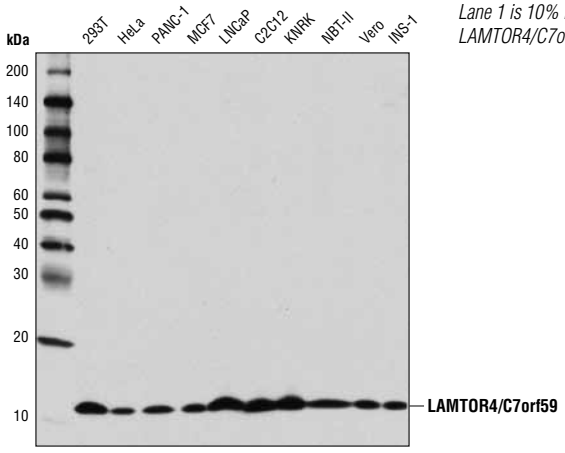
(1) Bar-Peled, L. et al. (2012) *Cell* 150, 1196-208.

(2) Sancak, Y. et al. (2010) *Cell* 141, 290-303.

(3) Zoncu, R. et al. (2011) *Science* 334, 678-83.



Immunoprecipitation of LAMTOR4/C7orf59 from HeLa cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or LAMTOR4/C7orf59 (D6A4V) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using LAMTOR4/C7orf59 (D6A4V) Rabbit mAb.



Western blot analysis of extracts from various cell lines using LAMTOR4/C7orf59 (D6A4V) Rabbit mAb.

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.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

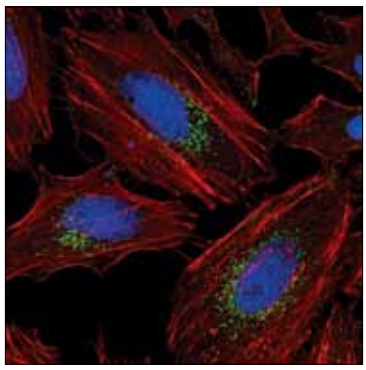
Recommended Antibody Dilutions:

Western Blotting	1:1000
Immunoprecipitation	1:50
Immunofluorescence (IF-IC)	1:800

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

HeLa



Confocal immunofluorescent analysis of HeLa cells using LAMTOR4/C7orf59 (D6A4V) Rabbit mAb (green). Actin filaments were labeled with DyLight™ 554 Phalloidin #13054 (red). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

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

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.