

LAMTOR4/C7orf59 (D6A4V) Rabbit mAb

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| Applications: W, IP, IF-IC | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 11 | Source/Isotype: Rabbit IgG | UniProt ID: #Q0VGL1 | Entrez-Gene Id: 389541 |
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:800

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

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

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).

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.

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 **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

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

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