

DEPTOR/DEPDC6 (D9F5) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P	H R Mk	Endogenous	48	Rabbit IgG	#Q8TB45	64798

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50
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.

For a carrier free (BSA and azide free) version of this product see product #25285.

Specificity/Sensitivity

DEPTOR/DEPDC6 (D9F5) Rabbit mAb recognizes endogenous levels of total DEPTOR/DEPDC6 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu113 of human DEPTOR/DEPDC6 protein.

Background

DEPTOR/DEPDC6 is a component of both mTORC1 and mTORC2 complexes (1). It interacts with mTOR and inhibits mTORC1 and mTORC2 kinase activities (1). mTOR, along with casein kinase I, phosphorylates DEPTOR/DEPDC6 in the presence of growth signals, which leads to the degradation of DEPTOR/DEPDC6 (2). Research studies have shown that transgenic mice overexpressing DEPTOR/DEPDC6 have more white adipose tissue, and DEPTOR/DEPDC6 expression levels increase in the white adipose tissue of obese humans (3). Furthermore, the expression of DEPTOR/DEPDC6 is induced during mouse adipocyte differentiation (3). Together these findings suggest that DEPTOR/DEPDC6 regulates adipogenesis (3).

Background References

- Peterson, T.R. et al. (2009) *Cell* 137, 873-86.
- Gao, D. et al. (2011) *Mol Cell* 44, 290-303.
- Laplante, M. et al. (2012) *Cell Metab* 16, 202-12.

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 **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

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

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