Store at -20°C

#11816

DEPTOR/DEPDC6 (D9F5) Rabbit mAb

www.cellsignal.com

100 µl (10 western blots)

Support: 877-678-TECH (8324)
info@cellsignal.com

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

rev. 06/09/14

Entrez-Gene ID #64798
UniProt ID #Q8TB45

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W, IP, IHC-P Endogenous	H, R, Mk	48 kDa	Rabbit IgG**

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).

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

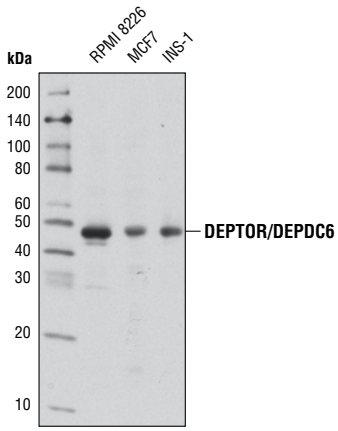
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu113 of human DEPTOR/DEPDC6 protein.

Background References:

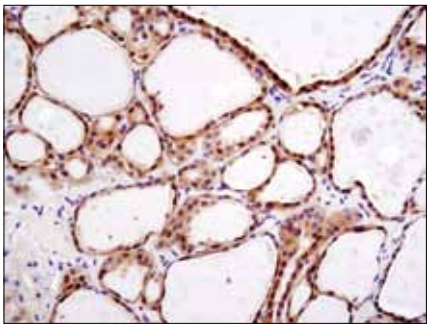
(1) Peterson, T.R. et al. (2009) *Cell* 137, 873-86.

(2) Gao, D. et al. (2011) *Mol Cell* 44, 290-303.

(3) Laplante, M. et al. (2012) *Cell Metab* 16, 202-12.



Western blot analysis of extracts from RPMI 8226, MCF7, and INS-1 cells using DEPTOR/DEPDC6 (D9F5) Rabbit mAb.



Immunohistochemical analysis of paraffin-embedded human thyroid using DEPTOR/DEPDC6 (D9F5) 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
Immunohistochemistry (Paraffin)	1:1000†
Unmasking buffer:	Citrate
Antibody diluent:	SignalStain® Antibody Diluent #8112
Detection reagent:	SignalStain® Boost (HRP, Rabbit) #8114

†*Optimal IHC dilutions determined using SignalStain® Boost IHC Detection Reagent.*

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.

Thank you for your recent purchase. If you would like to provide a review visit www.cellsignal.com/comments.

Cell Signaling TECHNOLOGY®

Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **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 **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.