**DEPTOR (A-3): sc-398169**

**BACKGROUND**

DEPTOR (DEP domain containing MTOR-interacting protein), also known as DEP6 or DEPDC6 (DEP domain-containing protein 6), is a 409 amino acid protein that negatively regulates mTORC1 and mTORC2 pathways. DEPTOR interacts with FRAP via its PDZ domain, and undergoes post-translational phosphorylation. Containing two DEP domains and one PDZ (DHR) domain, DEPTOR is encoded by a gene that maps to human chromosome 8q24.12. Chromosome 8 consists of nearly 146 million base pairs, encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

**CHROMOSOMAL LOCATION**

Genetic locus: DEPTOR (human) mapping to 8q24.12; Deptor (mouse) mapping to 15D1.

**SOURCE**

DEPTOR (A-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 18-37 near the N-terminus of DEPTOR of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DEPTOR (A-3) is available conjugated to agarose (sc-398169 AC), 500 µg/ml for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398169 PE), fluorescein (sc-398169 FITC), Alexa Fluor® 488 (sc-398169 AF488), Alexa Fluor® 546 (sc-398169 AF546), Alexa Fluor® 594 (sc-398169 AF594) or Alexa Fluor® 647 (sc-398169 AF647), 200 µg/ml for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398169 AF680) or Alexa Fluor® 790 (sc-398169 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398169 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

DEPTOR (A-3) is recommended for detection of DEPTOR of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DEPTOR siRNA (h): sc-77660, DEPTOR siRNA (m): sc-143009, DEPTOR shRNA Plasmid (h): sc-77660-SH, DEPTOR shRNA Plasmid (m): sc-143009-SH, DEPTOR shRNA (h) Lentiviral Particles: sc-77660-V and DEPTOR shRNA (m) Lentiviral Particles: sc-143009-V.

Molecular Weight of DEPTOR: 48 kDa.

Positive Controls: DEPTOR (h4): 293T Lysate: sc-128441.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![Western blot analysis of DEPTOR expression in non-transfected 293T: sc-117752 (A), human DEPTOR transfected 293T: sc-128441 (B), Ramos (C), L266 (D), MCF7 (E) and COLO320DM (F) whole cell lysates.](image)

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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