SANTA CRUZ BIOTECHNOLOGY, INC.

DEPTOR (C-16): sc-87691

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DEPTOR (DEP domain containing MTOR-interacting protein), also known as DEP.6 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 15 D1.

SOURCE

DEPTOR (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of DEPTOR of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87691 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

DEPTOR (C-16) is recommended for detection of DEPTOR of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with DEPDC5.

DEPTOR (C-16) is also recommended for detection of DEPTOR in additional species, including equine, canine, porcine and avian.

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.

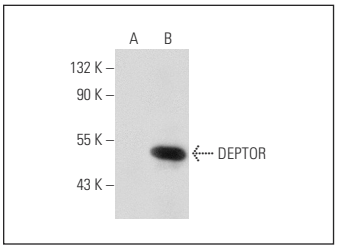
Molecular Weight of DEPTOR: 48 kDa.

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

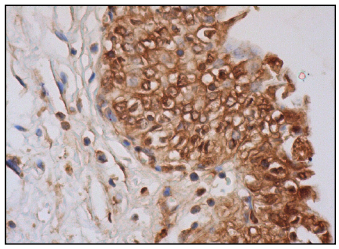
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



DEPTOR (C-16): sc-87691. Western blot analysis of DEPTOR expression in non-transfected: sc-117752 (**A**) and human DEPTOR transfected: sc-128441 (**B**) 293T whole cell lysates.



DEPTOR (C-16): sc-87691. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing cytoplasmic, membrane and nuclear staining of urothelial cells.

STORAGE

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

PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **DEPTOR (A-3): sc-398169** or **DEPTOR (E-2): sc-514608**, our highly recommended monoclonal alternatives to DEPTOR (C-16).