

TORC2 (D-20): sc-46273

BACKGROUND

The TORC (transducer of regulated cAMP response element-binding) proteins, TORC1 and TORC2, are potent CREB coactivators that are exported from the nucleus in a CRM1-dependent manner. The translocation of TORC proteins is a conserved step in the activation of CRE-mediated gene expression induced by cAMP. TORC1 and TORC2 operate via phosphorylation-dependent interactions.

REFERENCES

1. Conkright, M.D., et al. 2003. TORCs: transducers of regulated CREB activity. *Mol. Cell* 12: 413-423.
2. Iourgenko, V., et al. 2003. Identification of a family of cAMP response element-binding protein coactivators by genome-scale functional analysis in mammalian cells. *Proc. Natl. Acad. Sci. USA* 100: 12147-12152.

CHROMOSOMAL LOCATION

Genetic locus: CRTC2 (human) mapping to 1q21.3; Crtc2 (mouse) mapping to 3 F1.

SOURCE

TORC2 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TORC2 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-46273 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-46273 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TORC2 (D-20) is recommended for detection of TORC2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TORC2 (D-20) is also recommended for detection of TORC2 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TORC2 siRNA (h): sc-45832, TORC2 siRNA (m): sc-45833, TORC2 shRNA Plasmid (h): sc-45832-SH, TORC2 shRNA Plasmid (m): sc-45833-SH, TORC2 shRNA (h) Lentiviral Particles: sc-45832-V and TORC2 shRNA (m) Lentiviral Particles: sc-45833-V.

TORC2 (D-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

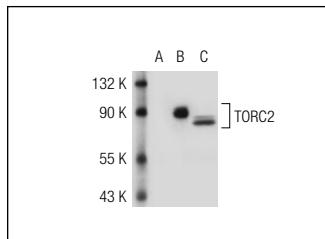
Molecular Weight of TORC2: 87 kDa.

Positive Controls: TORC2 (h): 293T Lysate: sc-116557 or HeLa nuclear extract: sc-2120.

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.

DATA



TORC2 (D-20): sc-46273. Western blot analysis of TORC2 expression in non-transfected: sc-117752 (A) and mouse TORC2 transfected: sc-124219 (B) 293T whole cell lysates and Jurkat nuclear extract (C).

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 or our catalog for detailed protocols and support products.



Try **TORC2 (G-4): sc-166445** or **TORC2 (F-4): sc-271912**, our highly recommended monoclonal alternatives to TORC2 (D-20).