

TORC2 (A-20): sc-46272

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.

CHROMOSOMAL LOCATION

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

SOURCE

TORC2 (A-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-46272 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-46272 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

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

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

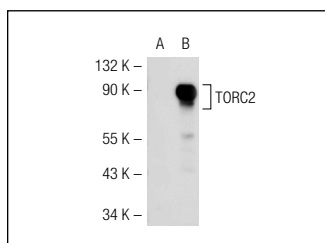
Molecular Weight of TORC2: 87 kDa.

Positive Controls: TORC2 (h): 293T Lysate: sc-116557, TORC2 (m3): 293T Lysate: sc-124219 or HeLa nuclear extract: sc-2120.

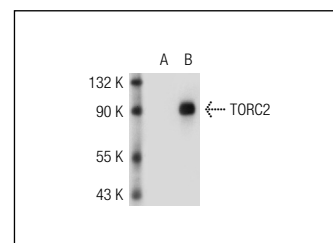
RECOMMENDED SECONDARY REAGENTS

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 (A-20): sc-46272. Western blot analysis of TORC2 expression in non-transfected: sc-117752 (A) and human TORC2 transfected: sc-116557 (B) 293T whole cell lysates.



TORC2 (A-20): sc-46272. Western blot analysis of TORC2 expression in non-transfected: sc-117752 (A) and mouse TORC2 transfected: sc-124219 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Municio, C., et al. 2011. Apoptotic cells enhance IL-10 and reduce IL-23 production in human dendritic cells treated with zymosan. *Mol. Immunol.* 49: 97-106.
- Hallenborg, P., et al. 2012. Mdm2 controls CREB-dependent transactivation and initiation of adipocyte differentiation. *Cell Death Differ.* 19: 1381-1389.

RESEARCH USE

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



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