

TORC2 (H-210): sc-67147

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.
3. Bittinger, M.A., et al. 2004. Activation of cAMP response element-mediated gene expression by regulated nuclear transport of TORC proteins. *Curr. Biol.* 14: 2156-2161.

CHROMOSOMAL LOCATION

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

SOURCE

TORC2 (H-210) is a rabbit polyclonal antibody raised against amino acids 406-615 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-67147 X, 200 µg/0.1 ml.

APPLICATIONS

TORC2 (H-210) 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), 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).

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 (H-210) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

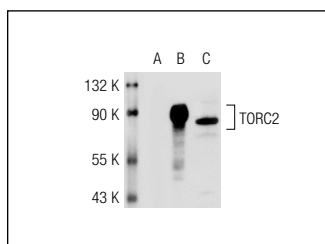
Molecular Weight of TORC2: 87 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, TORC2 (m3): 293T Lysate: sc-124219 or HeLa nuclear extract: sc-2120.

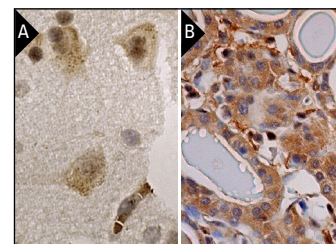
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



TORC2 (H-210): sc-67147. 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).



TORC2 (H-210): sc-67147. Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing nuclear and cytoplasmic staining of neuronal and glial cells (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid gland tissue showing cytoplasmic staining of glandular cells (B).

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 (H-210).