# SANTA CRUZ BIOTECHNOLOGY, INC.

# TORC1 (G-3): sc-365009



#### 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

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- Screaton, R.A., Conkright, M.D., Katoh, Y., Best, J.L., Canettieri, G., Jeffries, S., Guzman, E., Niessen, S., Yates, J.R., 3rd, Takemori, H., Okamoto, M. and Montminy, M. 2004. The CREB coactivator TORC2 functions as a calciumand cAMP-sensitive coincidence detector. Cell 119: 61-74.
- Behboudi, A., Winnes, M., Gorunova, L., van den Oord, J.J., Mertens, F., Enlund, F. and Stenman, G. 2006. Clear cell hidradenoma of the skin—a third tumor type with a t(11;19)-associated TORC1-MAML2 gene fusion. Genes Chromosomes Cancer 43: 202-205.

### CHROMOSOMAL LOCATION

Genetic locus: CRTC1 (human) mapping to 19p13.11.

# SOURCE

TORC1 (G-3) is a mouse monoclonal antibody raised against amino acids 391-515 mapping within an internal region of TORC1 of human origin.

# PRODUCT

Each vial contains 200  $\mu$ g lgG<sub>1</sub> kappa light chain 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-365009 X, 200  $\mu$ g/0.1 ml.

#### **STORAGE**

Store at 4° C, \*\*D0 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.

#### APPLICATIONS

TORC1 (G-3) is recommended for detection of TORC1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 TORC1 siRNA (h): sc-45600, TORC1 shRNA Plasmid (h): sc-45600-SH and TORC1 shRNA (h) Lentiviral Particles: sc-45600-V.

TORC1 (H-6) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

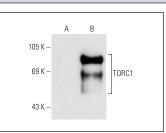
Molecular Weight of TORC1: 67 kDa.

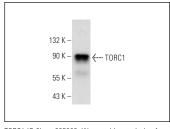
Positive Controls: human brain extract: sc-364375, Jurkat nuclear extract: sc-2132 or TORC1 (h): 293T Lysate: sc-114714.

### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 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 m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





TORC1 (G-3): sc-365009. Western blot analysis of TORC1 expression in non-transfected: sc-117752 (A) and human TORC1 transfected: sc-114714 (B) 293T whole cell lysates. TORC1 (G-3): sc-365009. Western blot analysis of TORC1 expression in human brain tissue extract.

#### **PROTOCOLS**

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