

TORC1 (A-1): sc-271333

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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CHROMOSOMAL LOCATION

Genetic locus: CRT1 (human) mapping to 19p13.11.

SOURCE

TORC1 (A-1) 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 µg IgG_{2a} 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-271333 X, 200 µg/0.1 ml.

TORC1 (A-1) is available conjugated to agarose (sc-271333 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271333 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271333 PE), fluorescein (sc-271333 FITC), Alexa Fluor[®] 488 (sc-271333 AF488), Alexa Fluor[®] 546 (sc-271333 AF546), Alexa Fluor[®] 594 (sc-271333 AF594) or Alexa Fluor[®] 647 (sc-271333 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-271333 AF680) or Alexa Fluor[®] 790 (sc-271333 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TORC1 (A-1) 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 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).

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 (A-1) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

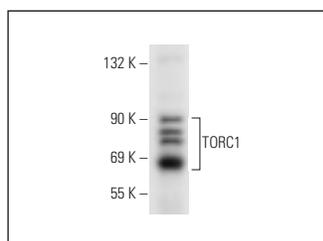
Molecular Weight of TORC1: 67 kDa.

Positive Controls: Hep G2 nuclear extract: sc-364819, Jurkat nuclear extract: sc-2132 or human brain extract: sc-364375.

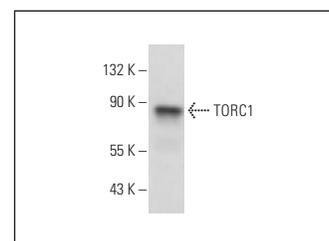
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] 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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



TORC1 (A-1): sc-271333. Western blot analysis of TORC1 expression in Hep G2 nuclear extract.



TORC1 (A-1): sc-271333. Western blot analysis of TORC1 expression in human brain tissue extract.

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.

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