SANTA CRUZ BIOTECHNOLOGY, INC.

Siva (M-175): sc-48768

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

A cytoplasmic domain of approximately 80 amino acids was identified in the apoptosis-mediating receptors TNFR1 and FAS. This region was determined to be necessary for the transduction of the apoptotic signal and was designated the "death domain". Other death domain-containing, but otherwise structurally unrelated, proteins have been identified on the basis of their ability to associate with the cytoplasmic domains of TNFR1 or FAS. FADD (also designated MORT1) and TRADD bind to FAS and TNFR1, respectively. RIP is a death domain-containing serine/threonine kinase that binds to TRADD. RAIDD (also designated CRADD) was identified as a RIP binding protein. Both RAIDD and FADD can associate with members of the caspase family, providing a link between the activation of theTNFRs and the triggering of the cysteine protease cascade. The death domain-containing protein Siva binds to the TNFR family member CD27 and appears to play a role in CD27 mediated apoptosis.

CHROMOSOMAL LOCATION

Genetic locus: SIVA1 (human) mapping to 14q32.33; Siva1 (mouse) mapping to 12 F1.

SOURCE

Siva (M-175) is a rabbit polyclonal antibody raised against amino acids 1-175 representing full length Siva of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

APPLICATIONS

Siva (M-175) is recommended for detection of Siva of mouse, rat and, to a lesser extent, 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).

Suitable for use as control antibody for Siva siRNA (h): sc-37385, Siva siRNA (m): sc-37386, Siva shRNA Plasmid (h): sc-37385-SH, Siva shRNA Plasmid (m): sc-37386-SH, Siva shRNA (h) Lentiviral Particles: sc-37385-V and Siva shRNA (m) Lentiviral Particles: sc-37386-V.

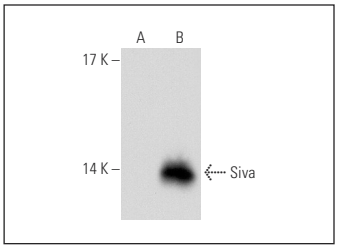
Molecular Weight of Siva: 19 kDa.

Positive Controls: Siva (m): 293T Lysate: sc-123561 or HeLa whole cell lysate: sc-2200.

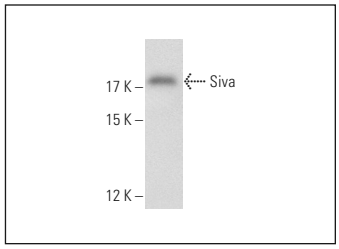
RECOMMENDED SECONDARY REAGENTS

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.

DATA



Siva (M-175): sc-48768. Western blot analysis of Siva expression in non-transfected: sc-117752 (**A**) and mouse Siva transfected: sc-123561 (**B**) 293T whole cell lysates.



Siva (M-175): sc-48768. Western blot analysis of Siva expression in HeLa whole cell lysate.

SELECT PRODUCT CITATIONS

1. Cottle, D.L., et al. 2009. SLIMMER (FHL1B/KyoT3) interacts with the proapoptotic protein Siva-1 (CD27BP) and delays skeletal myoblast apoptosis. J. Biol. Chem. 284: 26964-26977.
2. Li, N., et al. 2011. Siva1 suppresses epithelial-mesenchymal transition and metastasis of tumor cells by inhibiting stathmin and stabilizing microtubules. Proc. Natl. Acad. Sci. USA 108: 12851-12856.
3. Ying, Y., et al. 2014. Targeted deletion of p53 in the proximal tubule prevents ischemic renal injury. J. Am. Soc. Nephrol. 25: 2707-2716.

PROTOCOLS

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