

# Siva (C-20): sc-7436

## BACKGROUND

A cytoplasmic domain of approximately 80 amino acids was identified in the apoptosis-mediating receptors TNF-R1 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 TNF-R1 or FAS. FADD (also designated MORT1) and TRADD bind to Fas and TNF-R1, 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 the TNF-Rs and the triggering of the cysteine protease cascade. The death domain-containing protein SIVA binds to the TNF-R 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 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Siva 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.

Blocking peptide available for competition studies, sc-7436 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.

## APPLICATIONS

Siva (C-20) is recommended for detection of Siva of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Siva (C-20) is also recommended for detection of Siva in additional species, including canine and bovine.

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.

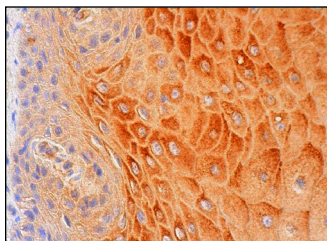
Molecular Weight of Siva: 19 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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) 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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



Siva (C-20): sc-7436. Immunoperoxidase staining of formalin fixed, paraffin-embedded human tonsil tissue showing cytoplasmic staining of squamous epithelial cells.

## SELECT PRODUCT CITATIONS

- Py, B., et al. 2004. Siva-1 and an alternative splice form lacking the death domain, Siva-2, similarly induce apoptosis in T lymphocytes via a caspase-dependent mitochondrial pathway. *J. Immunol.* 172: 4008-4017.
- Machado-Neto, J.A., et al. 2015. ANKHD1 silencing inhibits Stathmin 1 activity, cell proliferation and migration of leukemia cells. *Biochim. Biophys. Acta* 1853: 583-593.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **Siva (H-9): sc-514375** or **Siva (F-1): sc-376260**, our highly recommended monoclonal alternatives to Siva (C-20).