**BACKGROUND**

The Myc family of genes includes five functional members, including c-Myc, L-Myc, N-Myc, B-Myc, and S-Myc. The S-Myc gene maps to the rat chromosome 19B and encodes a 429 amino acid protein with an approximate molecular mass of 50 kDa. S-Myc is closely related to N-Myc, but lacks an acidic amino-acid rich sequence commonly present in the Myc family proteins. S-Myc is also very similar to c-Myc in its ability to induce apoptosis through the caspase activation pathway. S-Myc is distinct from c-Myc in that it has tumor suppressor activity and does not require p53 to induce apoptosis. The high level of S-Myc mRNA expression in nude mice suppresses the tumorigenicity of RT4-AC tumor cells, suggesting that S-Myc acts as a negative regulator of tumor growth. S-Myc may also play an important role in the transcriptional regulation of a set of genes whose expression induces programmed cell death both *in vitro* and *in vivo*.

**REFERENCES**


**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-13667 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-13667 X, 200 µg/0.1 ml.

**APPLICATIONS**

S-Myc (T-19) is recommended for detection of S-Myc of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

S-Myc (T-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of S-Myc: 50 kDa.

**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.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SOURCE**

S-Myc (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of S-Myc of rat origin.