

STARS (K-18): sc-98151

BACKGROUND

STARS (striated muscle activator of Rho-dependent signaling), also known as ABRA (Actin-binding Rho-activating protein), is a 381 amino acid cytoplasmic protein. STARS localizes to the cytoskeleton, specifically, the I-band of the sarcomere and the sarcomeric structure between Z-lines, to a lesser extent. STARS is an activator of serum response factor (SRF)-dependent transcription, either by a mechanism requiring Rho-Actin signaling or inducing nuclear translocation of MRTF-A or MRTF-B. STARS has been found to interact with ABLIM1, ABLIM2 and ABLIM3. The gene that encodes STARS maps to human chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ABRA (human) mapping to 8q23.1; Abra (mouse) mapping to 15 B3.1.

SOURCE

STARS (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of STARS 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-98151 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

STARS (K-18) is recommended for detection of STARS of mouse, rat and human 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).

STARS (K-18) is also recommended for detection of STARS in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for STARS siRNA (h): sc-77702, STARS siRNA (m): sc-153880, STARS shRNA Plasmid (h): sc-77702-SH, STARS shRNA Plasmid (m): sc-153880-SH, STARS shRNA (h) Lentiviral Particles: sc-77702-V and STARS shRNA (m) Lentiviral Particles: sc-153880-V.

Molecular Weight of STARS: 43 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.

PROTOCOLS

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



Try **STARS (E-9): sc-393062**, our highly recommended monoclonal alternative to STARS (K-18).