

S19BP (S-12): sc-86210

BACKGROUND

S19BP, also known as RPS19BP1 (ribosomal protein S19 binding protein 1) or AROS, is a 136 amino acid protein that localizes to the nucleolus and belongs to the AROS family. Expressed in a variety of tissues, S19BP interacts with ribosomal protein S19 and SIRT1 and is thought to directly regulate SIRT1 function, specifically enhancing the SIRT1-mediated deacetylation of p53 and inhibiting p53-induced transcriptional activity. The gene encoding S19BP maps to human chromosome 22, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RPS19BP1 (human) mapping to 22q13.1.

SOURCE

S19BP (S-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Q86WX3 of human origin.

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.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86210 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

S19BP (S-12) is recommended for detection of Q86WX3 of 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).

Suitable for use as control antibody for S19BP siRNA (h): sc-76439, S19BP shRNA Plasmid (h): sc-76439-SH and S19BP shRNA (h) Lentiviral Particles: sc-76439-V.

Molecular Weight of S19BP: 15 kDa.

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) 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.

SELECT PRODUCT CITATIONS

1. Raynes, R., et al. 2013. The SIRT1 modulators AROS and DBC1 regulate HSF1 activity and the heat shock response. *PLoS ONE* 8: e54364.

RESEARCH USE

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