

S-100P (N-13): sc-48934

BACKGROUND

S-100 proteins are small dimeric members of the EF-Hand superfamily that participate in moderating intracellular calcium signals by binding to and regulating specific proteins in a calcium-dependent manner. S-100P is a survival factor that is associated with different types of tumors and can bind and regulate effector proteins. R1881, a synthetic androgen, regulates S-100P expression. S-100P interacts with a receptor for advanced glycation end products (RAGE) and activates it, thereby increasing the rates of cell growth, division, migration and invasion. This suggests that S-100P acts in an auto-crine manner through RAGE to trigger cell proliferation and survival. S-100P may also positively affect anchorage-independent growth to improve tumor formation. S-100P monomers strongly interact with one another, but not with other S-100 polypeptides, suggesting that homodimer formation is necessary for S-100P to function. The S-100P dimers are then stabilized by hydrophobic contacts.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: S100P (human) mapping to 4p16.1.

SOURCE

S-100P (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of S-100P of human origin.

RESEARCH USE

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

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-48934 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

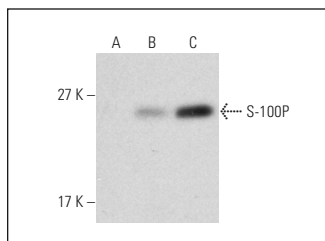
S-100P (N-13) is recommended for detection of S-100P of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for S-100P siRNA (h): sc-61488, S-100P shRNA Plasmid (h): sc-61488-SH and S-100P shRNA (h) Lentiviral Particles: sc-61488-V.

Molecular Weight of S-100P: 10 kDa.

Positive Controls: S-100P (h): 293 Lysate: sc-110532, HUV-EC-C whole cell lysate: sc-364180 or HT-29 whole cell lysate: sc-364232.

DATA



S-100P (N-13): sc-48934. Western blot analysis of S-100P expression in non-transfected 293T: sc-117752 (A), human S-100P transfected 293T: sc-110532 (B) and HT-29 (C) whole cell lysates.

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.


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Guaranteed

Try **S-100P (B-10): sc-374547**, our highly recommended monoclonal alternative to S-100P (N-13).