

S-100A2 (C-15): sc-25936

BACKGROUND

S-100A2 (S100L), first isolated from cow lung, belongs to a large family of calcium binding proteins known as S-100 proteins. S-100A2 is expressed in the basal layer of the epidermis and hair follicles of normal skin. S-100A2 associates with Tropomyosin in a calcium-dependent manner. In breast cancer, S-100A2 expression is lost during the development of malignant cells. S-100A2 may play a tumor-suppressor role in certain epithelial tissues by interfering with cell migration. S-100A2 exerts an inhibitory influence on cell motility of head and neck squamous cell carcinomas *in vitro*. Neoplastic gastric epithelial cells express S-100A2 as well as S-100A7, S-100A8, S-100A9 and S-100A10 in greater abundance than normal gastric cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: S100A2 (human) mapping to 1q21.3.

SOURCE

S-100A2 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of S-100A2 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-25936 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

S-100A2 (C-15) is recommended for detection of S-100A2 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).

S-100A2 (C-15) is also recommended for detection of S-100A2 in additional species, including equine.

Suitable for use as control antibody for S-100A2 siRNA (h): sc-63353, S-100A2 shRNA Plasmid (h): sc-63353-SH and S-100A2 shRNA (h) Lentiviral Particles: sc-63353-V.

Molecular Weight of partially reduced S-100A2: 28 kDa.

Molecular Weight of fully reduced S-100A2: 10 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.

RESEARCH USE

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

PROTOCOLS

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


 MONOS
 Satisfation
 Guaranteed

Try **S-100A2 (SH-L1): sc-58844**, our highly recommended monoclonal alternative to S-100A2 (C-15).