

cortistatin (A-18): sc-79912

BACKGROUND

Cortistatin is a 155 amino acid protein encoded by the human gene CORT. This product of the CORT gene is a neuropeptide with strong structural similarity to Somatostatin. It binds to all known Somatostatin receptors, and shares many pharmacological and functional properties with Somatostatin, including the depression of neuronal activity. However, cortistatin also has many properties distinct from Somatostatin, such as induction of slow-wave sleep, apparently by antagonism of the excitatory effects of acetylcholine on the cortex, reduction of locomotor activity, and activation of cation selective currents not responsive to Somatostatin.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CORT (human) mapping to 1p36.22.

SOURCE

cortistatin (A-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of cortistatin 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-79912 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cortistatin (A-18) is recommended for detection of cortistatin 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 cortistatin siRNA (h): sc-39726, cortistatin shRNA Plasmid (h): sc-39726-SH and cortistatin shRNA (h) Lentiviral Particles: sc-39726-V.

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.



Try **cortistatin (A-7): sc-393108** or **cortistatin (H-3): sc-393107**, our highly recommended monoclonal alternatives to cortistatin (A-18).