

cortixin 1 (C-14): sc-242505

BACKGROUND

Cortixin 1, also known as CTXN or CTXN1, is an 82 amino acid single-pass membrane protein that may be involved in mediating extracellular or intracellular signaling of cortical neurons during forebrain development. Cortixin 1 is encoded by a gene located on human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs). Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

1. Watson, J.B., et al. 1994. Mouse chromosomal localization of the cortixin (Ctxn) gene. *Genomics* 22: 251-252.
2. Horvath, D.H., et al. 1996. Probable exclusion of the cortixin-encoding gene as a candidate for mouse neurological mutants: nervous, tottering and motor neuron degeneration. *Gene* 171: 305-306.
3. Trettel, F., et al. 2000. A fine physical map of the CACNA1A gene region on 19p13.1-p13.2 chromosome. *Gene* 241: 45-50.
4. Grimwood, J., et al. 2004. The DNA sequence and biology of human chromosome 19. *Nature* 428: 529-535.
5. Shabanov, P.D., et al. 2007. Comparison of behavioral effects of cortixin and cerebrolysin injected into brain ventricles. *Bull. Exp. Biol. Med.* 143: 437-441.
6. Shabanov, P.D., et al. 2007. Comparative study of behavioral effects of cortixin and cerebrolysin upon intraventricular and intraperitoneal administration in rats. *Eksp. Klin. Farmakol.* 70: 13-19.

CHROMOSOMAL LOCATION

Genetic locus: CTXN1 (human) mapping to 19p13.2; Ctxn1 (mouse) mapping to 8 A1.1.

SOURCE

cortixin 1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of cortixin 1 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-242505 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

cortixin 1 (C-14) is recommended for detection of cortixin 1 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).

cortixin 1 (C-14) is also recommended for detection of cortixin 1 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for cortixin 1 siRNA (h): sc-97233, cortixin 1 siRNA (m): sc-142521, cortixin 1 shRNA Plasmid (h): sc-97233-SH, cortixin 1 shRNA Plasmid (m): sc-142521-SH, cortixin 1 shRNA (h) Lentiviral Particles: sc-97233-V and cortixin 1 shRNA (m) Lentiviral Particles: sc-142521-V.

Molecular Weight of cortixin 1: 9 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.

PROTOCOLS

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