

# cortixin 3 (D-13): sc-164103

## BACKGROUND

Cortixin 3, also known as CTXN3 or KABE, is an 81 amino acid single-pass membrane protein that is specifically expressed in kidney and brain. Existing as two isoforms due to alternative splicing, cortixin 3 may mediate extracellular or intracellular signaling in the kidney or brain. Highly conserved in vertebrates, cortixin 3 may play an important role in kidney and brain development. The gene encoding cortixin 3 maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CTXN3 (human) mapping to 5q23.2; Ctxn3 (mouse) mapping to 18 D3.

## SOURCE

cortixin 3 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of cortixin 3 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-164103 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

cortixin 3 (D-13) is recommended for detection of cortixin 3 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); non cross-reactive with cortixin 1.

cortixin 3 (D-13) is also recommended for detection of cortixin 3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for cortixin 3 siRNA (h): sc-91693, cortixin 3 shRNA Plasmid (h): sc-91693-SH and cortixin 3 shRNA (h) Lentiviral Particles: sc-91693-V.

Molecular Weight of cortixin 3: 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.