

# CNKSR3 (Y-19): sc-242480

## BACKGROUND

CNKSR3 (connector enhancer of kinase suppressor of ras 3), also known as CNK homolog protein 3, CNKSR family member 3 or maguin-like protein, is a 555 amino acid protein that belongs to the CNKSR family. Suggested to play a role in transepithelial sodium transport, CNKSR3 mediates aldosterone-induced and ENaC-mediated sodium transport, and is upregulated by aldosterone. CNKSR3 contains one SAM (sterile  $\alpha$  motif) domain, a CRIC domain, DUF1170 domain and a single PDZ (DHR) domain. The gene encoding CNKSR3 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CNKSR3 (human) mapping to 6q25.2; Cnksr3 (mouse) mapping to 10 A1.

## SOURCE

CNKSR3 (Y-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CNKSR3 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242480 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CNKSR3 (Y-19) is recommended for detection of CNKSR3 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).

CNKSR3 (Y-19) is also recommended for detection of CNKSR3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CNKSR3 siRNA (h): sc-95360, CNKSR3 siRNA (m): sc-142435, CNKSR3 shRNA Plasmid (h): sc-95360-SH, CNKSR3 shRNA Plasmid (m): sc-142435-SH, CNKSR3 shRNA (h) Lentiviral Particles: sc-95360-V and CNKSR3 shRNA (m) Lentiviral Particles: sc-142435-V.

Molecular Weight of CNKSR3: 62 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.