

# C5orf32 (K-19): sc-242200

## BACKGROUND

With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome. The C5orf32 gene product has been provisionally designated C5orf32 pending further characterization.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CYSTM1 (human) mapping to 5q31.3; Cystm1 (mouse) mapping to 18 B2.

## SOURCE

C5orf32 (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C5orf32 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-242200 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

C5orf32 (K-19) is recommended for detection of C5orf32 of mouse 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).

C5orf32 (K-19) is also recommended for detection of C5orf32 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for C5orf32 siRNA (h): sc-91743, 0610010012Rik siRNA (m): sc-108112, C5orf32 shRNA Plasmid (h): sc-91743-SH, 0610010012Rik shRNA Plasmid (m): sc-108112-SH, C5orf32 shRNA (h) Lentiviral Particles: sc-91743-V and 0610010012Rik shRNA (m) Lentiviral Particles: sc-108112-V.

Molecular Weight of C5orf32: 11 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.