SANTA CRUZ BIOTECHNOLOGY, INC.

C5orf22 (I-14): sc-163922

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 C5orf22 gene product has been provisionally designated C5orf22 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C5orf22 (human) mapping to 5p13.3; 6030458C11Rik (mouse) mapping to 15 A1.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

C5orf22 (I-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of C5orf22 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-163922 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C5orf22 (I-14) is recommended for detection of C5orf22 of human origin and 6030458C11Rik of mouse origin 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 other C5orf family members.

Suitable for use as control antibody for C5orf22 siRNA (h): sc-92020, 6030458C11Rik siRNA (m): sc-140424, C5orf22 shRNA Plasmid (h): sc-92020-SH, 6030458C11Rik shRNA Plasmid (m): sc-140424-SH, C5orf22 shRNA (h) Lentiviral Particles: sc-92020-V and 6030458C11Rik shRNA (m) Lentiviral Particles: sc-140424-V.

Molecular Weight of C5orf22 isoforms: 50/20/18 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.

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.