SANTA CRUZ BIOTECHNOLOGY, INC.

C15orf17 (K-16): sc-245335

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The Power to Question

BACKGROUND

C15orf17 (chromosome 15 open reading frame 17) is a 198 amino acid protein that exists as 2 alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 15q24.1. Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and consists of about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q11-q13 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM219B (human) mapping to 15q24.1; Fam219b (mouse) mapping to 9 B.

SOURCE

C15orf17 (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C15orf17 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-245335 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C15orf17 (K-16) is recommended for detection of C15orf17 of human origin, 2310046O06Rik of mouse 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).

C15orf17 (K-16) is also recommended for detection of C15orf17 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for C15orf17 siRNA (h): sc-90242, 2310046O06Rik siRNA (m): sc-108705, C15orf17 shRNA Plasmid (h): sc-90242-SH, 2310046O06Rik shRNA Plasmid (m): sc-108705-SH, C15orf17 shRNA (h) Lentiviral Particles: sc-90242-V and 2310046O06Rik shRNA (m) Lentiviral Particles: sc-108705-V.

Molecular Weight of C15orf17 isoform 1/2: 59/54 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 or our catalog for detailed protocols and support products.