SANTA CRUZ BIOTECHNOLOGY, INC.

C15orf59 (N-17): sc-242055

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

C15orf59 is a 293 amino acid protein that belongs to the UPF0583 family. The gene encoding C15orf59 maps to human chromosome 15, which encodes more than 700 genes, is made up of approximately 106 million base pairs and is 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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2. Midla, G.S. 2008. Diagnosis and management of patients with Marfan syndrome. JAAPA 21: 21-25.
3. Dan, B. 2009. Angelman syndrome: current understanding and research prospects. Epilepsia 50: 2331-2339.
4. Ferrer-Bolufer, I., Dalmau, J., Quiroga, R., Oltra, S., Orellana, C., Monfort, S., Roselló, M., De La Osa, A. and Martinez, F. 2009. Tyrosinemia type 1 and Angelman syndrome due to paternal uniparental isodisomy 15. J. Inherit. Metab. Dis. 32:S349-S353.
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CHROMOSOMAL LOCATION

Genetic locus: C15orf59 (human) mapping to 15q24.1; 6030419C18Rik (mouse) mapping to 9 B.

SOURCE

C15orf59 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of C15orf59 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-242055 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

C15orf59 (N-17) is recommended for detection of C15orf59 of human origin, 6030419C18Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

C15orf59 (N-17) is also recommended for detection of C15orf59 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C15orf59 siRNA (h): sc-89960, 6030419C18Rik siRNA (m): sc-140418, C15orf59 shRNA Plasmid (h): sc-89960-SH, 6030419C18Rik shRNA Plasmid (m): sc-140418-SH, C15orf59 shRNA (h) Lentiviral Particles: sc-89960-V and 6030419C18Rik shRNA (m) Lentiviral Particles: sc-140418-V.

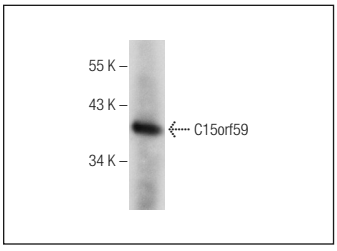
Molecular Weight of C15orf59: 32 kDa.

Positive Controls: mouse brain extract: sc-2253.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



C15orf59 (N-17): sc-242055. Western blot analysis of C15orf59 expression in mouse brain tissue extract.

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.