SANTA CRUZ BIOTECHNOLOGY, INC.

FLJ11506 (C-16): sc-164412

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Encoding more than 700 genes, chromosome 15 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 15q22.33 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. The FLJ11506 gene product has been provisionally designated FLJ11506 pending further characterization.

REFERENCES

1. Cachón-González, M.B., et al. 2006. Effective gene therapy in an authentic model of Tay-Sachs-related diseases. Proc. Natl. Acad. Sci. USA 103: 10373-10378.
2. Zody, M.C., et al. 2006. Analysis of the DNA sequence and duplication history of human chromosome 15. Nature 440: 671-675.
3. Diene, G., et al. 2007. The Prader-Willi syndrome. Ann. Endocrinol. 68: 129-137.
4. Lalande, M., et al. 2007. Molecular epigenetics of Angelman syndrome. Cell. Mol. Life Sci. 64: 947-960.
5. Maegawa, G.H., et al. 2007. Pyrimethamine as a potential pharmacological chaperone for late-onset forms of GM2 gangliosidosis. J. Biol. Chem. 282: 9150-9161.
6. Makoff, A.J., et al. 2007. Detailed analysis of 15q11-q14 sequence corrects errors and gaps in the public access sequence to fully reveal large segmental duplications at breakpoints for Prader-Willi, Angelman, and inv dup(15) syndromes. Genome Biol. 8: R114.
7. Ramirez, F., et al. 2007. Fibrillin-rich microfibrils: Structural deter-minants of morphogenetic and homeostatic events. J. Cell. Physiol. 213: 326-330.

CHROMOSOMAL LOCATION

Genetic locus: AAGAB (human) mapping to 15q22.33; Aagab (mouse) mapping to 9 C.

SOURCE

FLJ11506 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FLJ11506 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-164412 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FLJ11506 (C-16) is recommended for detection of FLJ11506 of human origin, 2310007F21Rik 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).

FLJ11506 (C-16) is also recommended for detection of FLJ11506 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FLJ11506 siRNA (h): sc-90088, 2310007F21Rik siRNA (m): sc-108655, FLJ11506 shRNA Plasmid (h): sc-90088-SH, 2310007F21Rik shRNA Plasmid (m): sc-108655-SH, FLJ11506 shRNA (h) Lentiviral Particles: sc-90088-V and 2310007F21Rik shRNA (m) Lentiviral Particles: sc-108655-V.

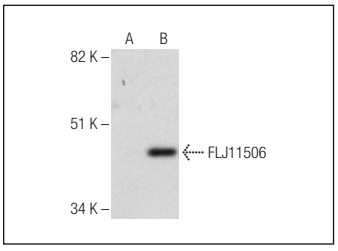
Molecular Weight of FLJ11506: 35 kDa.

Positive Controls: FLJ11506 (h): 293T Lysate: sc-116610.

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



FLJ11506 (C-16): sc-164412. Western blot analysis of FLJ11506 expression in non-transfected: sc-117752 (**A**) and human FLJ11506 transfected: sc-116610 (**B**) 293T whole cell lysates.

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.