

FLJ11506 (D-6): sc-390860

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 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. 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. Lalonde, M. and Calciano, M.A. 2007. Molecular epigenetics of Angelman syndrome. *Cell. Mol. Life Sci.* 64: 947-960.

CHROMOSOMAL LOCATION

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

SOURCE

FLJ11506 (D-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 293-308 near the C-terminus of FLJ11506 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FLJ11506 (D-6) is available conjugated to agarose (sc-390860 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390860 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390860 PE), fluorescein (sc-390860 FITC), Alexa Fluor[®] 488 (sc-390860 AF488), Alexa Fluor[®] 546 (sc-390860 AF546), Alexa Fluor[®] 594 (sc-390860 AF594) or Alexa Fluor[®] 647 (sc-390860 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-390860 AF680) or Alexa Fluor[®] 790 (sc-390860 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390860 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

FLJ11506 (D-6) is recommended for detection of FLJ11506 of human origin, 2310007F21Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, 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 (D-6) 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.

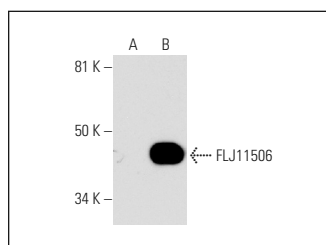
Molecular Weight of FLJ11506: 35 kDa.

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

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



FLJ11506 (D-6): sc-390860. 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.