SANTA CRUZ BIOTECHNOLOGY, INC.

FLYWCH2 (T-18): sc-246944

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

FLYWCH2 (FLYWCH family member 2) is a 140 amino acid protein that is encoded by a gene located on human chromosome 16p13.3. Chromosome 16 encodes over 900 genes and comprises nearly 3% of human cellular DNA. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16 through the CREBBP gene, which encodes a critical CREB binding protein. Crohn's disease is a gastrointestinal inflammatory condition associated with chromosome 16 through the NOD2 gene. An association with systemic lupus erythematosis and a number of other autoimmune disorders with the pericentromeric region of chromosome 16 has led to the identification of SLC5A11 as a potential autoimmune modifier.

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CHROMOSOMAL LOCATION

Genetic locus: FLYWCH2 (human) mapping to 16p13.3; Flywch2 (mouse) mapping to 17 A3.3.

SOURCE

FLYWCH2 (T-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FLYWCH2 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-246944 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FLYWCH2 (T-18) is recommended for detection of FLYWCH2 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 FLYWCH1.

FLYWCH2 (T-18) is also recommended for detection of FLYWCH2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FLYWCH2 siRNA (h): sc-93415, FLYWCH2 siRNA (m): sc-145204, FLYWCH2 shRNA Plasmid (h): sc-93415-SH, FLYWCH2 shRNA Plasmid (m): sc-145204-SH, FLYWCH2 shRNA (h) Lentiviral Particles: sc-93415-V and FLYWCH2 shRNA (m) Lentiviral Particles: sc-145204-V.

Molecular Weight of FLYWCH2: 15 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.