SANTA CRUZ BIOTECHNOLOGY, INC.

FAM96B (C-17): sc-138786

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. 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, though through the CREBBP gene which encodes a critical CREB binding protein. Signs of Rubinstein-Taybi include mental retardation and predisposition to tumor growth and white blood cell neoplasias. 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. The FAM96B gene product has been provisionally designated FAM96B pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM96B (human) mapping to 16q22.1; Fam96b (mouse) mapping to 8 D3.

SOURCE

FAM96B (C-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of FAM96B of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138786 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM96B (C-17) is recommended for detection of FAM96B of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with FAM96A.

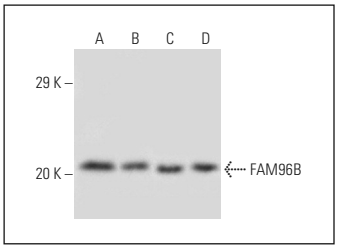
FAM96B (C-17) is also recommended for detection of FAM96B in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FAM96B siRNA (h): sc-93256, FAM96B siRNA (m): sc-108163, FAM96B shRNA Plasmid (h): sc-93256-SH, FAM96B shRNA Plasmid (m): sc-108163-SH, FAM96B shRNA (h) Lentiviral Particles: sc-93256-V and FAM96B shRNA (m) Lentiviral Particles: sc-108163-V.

Molecular Weight of FAM96B: 18 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, K-562 whole cell lysate: sc-2203 or Ramos cell lysate: sc-2216.

DATA



FAM96B (C-17): sc-138786. Western blot analysis of FAM96B expression in HeLa (**A**), Jurkat (**B**), K-562 (**C**) and Ramos (**D**) 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.