

# FAM96B (F-1): sc-376801

## 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 erythematosus 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

1. Ben Hamida, C., et al. 1997. Homozygosity mapping of giant axonal neuropathy gene to chromosome 16q24.1. *Neurogenetics* 1: 129-133.
2. Karlsson, J., et al. 2003. Novel quantitative trait loci controlling development of experimental autoimmune encephalomyelitis and proportion of lymphocyte subpopulations. *J. Immunol.* 170: 1019-1026.
3. Forabosco, P., et al. 2006. Meta-analysis of genome-wide linkage studies of systemic lupus erythematosus. *Genes Immun.* 7: 609-614.

## CHROMOSOMAL LOCATION

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

## SOURCE

FAM96B (F-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 137-163 at the C-terminus of FAM96B of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FAM96B (F-1) is available conjugated to agarose (sc-376801 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376801 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376801 PE), fluorescein (sc-376801 FITC), Alexa Fluor® 488 (sc-376801 AF488), Alexa Fluor® 546 (sc-376801 AF546), Alexa Fluor® 594 (sc-376801 AF594) or Alexa Fluor® 647 (sc-376801 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376801 AF680) or Alexa Fluor® 790 (sc-376801 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376801 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## APPLICATIONS

FAM96B (F-1) is recommended for detection of FAM96B of mouse, rat and human origin 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

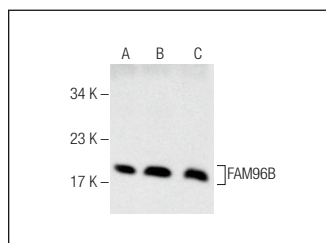
FAM96B (F-1) is also recommended for detection of FAM96B in additional species, including equine, canine, bovine and porcine.

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.

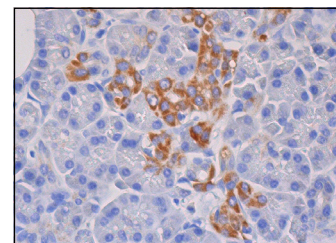
Molecular Weight of FAM96B: 18 kDa.

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

## DATA



FAM96B (F-1): sc-376801. Western blot analysis of FAM96B expression in Jurkat (A), K-562 (B) and Ramos (C) whole cell lysates.



FAM96B (F-1): sc-376801. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of subset of glandular cells.

## SELECT PRODUCT CITATIONS

1. Palmer, C.J., et al. 2017. Cdkal1, a type 2 diabetes susceptibility gene, regulates mitochondrial function in adipose tissue. *Mol. Metab.* 6: 1212-1225.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.