SANTA CRUZ BIOTECHNOLOGY, INC.

FAM181B (N-17): sc-242737

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association-dense chromosome. The chromosome 11-encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders Sickle cell anemia and β thalassemia are caused by HBB gene mutations. Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11. The FAM181B gene product has been provisionally designated FAM181B pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM181B (human) mapping to 11q14.1; Fam181b (mouse) mapping to 7 E1.

SOURCE

FAM181B (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FAM181B 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-242737 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM181B (N-17) is recommended for detection of FAM181B 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).

FAM181B (N-17) is also recommended for detection of FAM181B in additional species, including canine and porcine.

Suitable for use as control antibody for FAM181B siRNA (h): sc-97027, FAM181B siRNA (m): sc-140687, FAM181B shRNA Plasmid (h): sc-97027-SH, FAM181B shRNA Plasmid (m): sc-140687-SH, FAM181B shRNA (h) Lentiviral Particles: sc-97027-V and FAM181B shRNA (m) Lentiviral Particles: sc-140687-V.

Molecular Weight of FAM181B: 43 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.