SANTA CRUZ BIOTECHNOLOGY, INC.

FAM26F (G-12): sc-515780

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer suggesting the presence of a cancer susceptibility locus. Porphyria cutanea tarda is associated with chromosome 6 through the HFE gene which, when mutated, predisposes an individual to developing this porphyria. Notably, the PARK2 gene, which is associated with Parkinson's disease, and the genes encoding the major histocompatiblity complex proteins, which are key molecular components of the immune system and determine predisposition to rheumatic diseases, are also located on chromosome 6. Stickler syndrome, 21-hydroxylase deficiency and maple syrup urine disease are also associated with genes on chromosome 6. A bipolar disorder susceptibility locus has been identified on the q arm of chromosome 6. The FAM26F gene product has been provisionally designated FAM26F pending further characterization.

CHROMOSOMAL LOCATION

Genetic locus: Fam26f (mouse) mapping to 10 B1.

SOURCE

FAM26F (G-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 293-312 at the C-terminus of FAM26F of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FAM26F (G-12) is available conjugated to agarose (sc-515780 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515780 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515780 PE), fluorescein (sc-515780 FITC), Alexa Fluor® 488 (sc-515780 AF488), Alexa Fluor® 546 (sc-515780 AF546), Alexa Fluor® 594 (sc-515780 AF594) or Alexa Fluor® 647 (sc-515780 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515780 AF680) or Alexa Fluor® 790 (sc-515780 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

FAM26F (G-12) is recommended for detection of FAM26F of mouse and rat 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FAM26F siRNA (m): sc-145037, FAM26F shRNA Plasmid (m): sc-145037-SH and FAM26F shRNA (m) Lentiviral Particles: sc-145037-V.

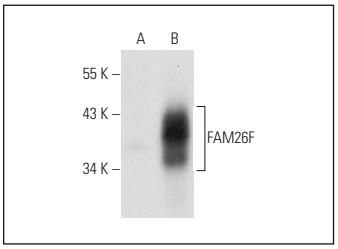
Molecular Weight of FAM26F: 34 kDa.

Positive Controls: FAM26F (m): 293T Lysate: sc-120179.

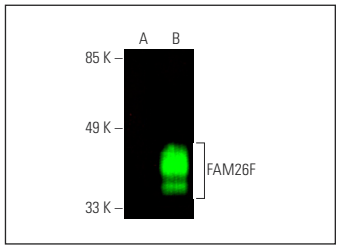
RECOMMENDED SUPPORT REAGENTS

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



FAM26F (G-12): sc-515780. Western blot analysis of FAM26F expression in non-transfected: sc-117752 (**A**) and mouse FAM26F transfected: sc-120179 (**B**) 293T whole cell lysates.



FAM26F (G-12): sc-515780. Near-infrared western blot analysis of FAM26F expression in non-transfected: sc-117752 (**A**) and mouse FAM26F transfected: sc-120179 (**B**) 293T whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGκ BP-CFL 680: sc-516180.

SELECT PRODUCT CITATIONS

1. Tian, T., et al. 2020. BET degrader inhibits tumor progression and stem-like cell growth via Wnt/β-catenin signaling repression in glioma cells. Cell Death Dis. 11: 900.
2. Danielli, S., et al. 2023. The ion channel CALHM6 controls bacterial infection-induced cellular cross-talk at the immunological synapse. EMBO J. 42: e111450.

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 for detailed protocols and support products.