SANTA CRUZ BIOTECHNOLOGY, INC.

FAM98B (E-14): sc-162807

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Encoding more than 700 genes, chromosome 15 is made up of approximately 106 million base pairs and is about 3% of the human genome. Angelman and Prader-Willi syndromes are associated with loss of function or deletion of genes in the 15q14 region. In the case of Angelman syndrome, this loss is due to inactivity of the maternal 15q11-q13 encoded UBE3A gene in the brain by either chromosomal deletion or mutation. In cases of Prader-Willi syndrome, there is a partial or complete deletion of this region from the paternal copy of chromosome 15. Tay-Sachs disease is a lethal disorder associated with mutations of the HEXA gene, which is encoded by chromosome 15. Marfan syndrome is associated with chromosome 15 through the FBN1 gene. The FAM98B gene product has been provisionally designated FAM98B pending further characterization.

REFERENCES

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5. Maegawa, G.H., et al. 2007. Pyrimethamine as a potential pharmacological chaperone for late-onset forms of GM2 gangliosidosis. J. Biol. Chem. 282: 9150-9161.
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CHROMOSOMAL LOCATION

Genetic locus: FAM98B (human) mapping to 15q14; Fam98b (mouse) mapping to 2 E5.

SOURCE

FAM98B (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FAM98B of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-162807 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM98B (E-14) is recommended for detection of FAM98B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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); non cross-reactive with FAM98A or FAM98C.

Suitable for use as control antibody for FAM98B siRNA (h): sc-90109, FAM98B siRNA (m): sc-145061, FAM98B shRNA Plasmid (h): sc-90109-SH, FAM98B shRNA Plasmid (m): sc-145061-SH, FAM98B shRNA (h) Lentiviral Particles: sc-90109-V and FAM98B shRNA (m) Lentiviral Particles: sc-145061-V.

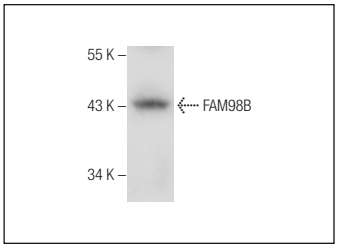
Molecular Weight of FAM98B isoforms 1/2: 37/46 kDa.

Positive Controls: Human rectum extract: sc-363775.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



FAM98B (E-14): sc-162807. Western blot analysis of FAM98B expression in human rectum tissue extract.

RESEARCH USE

For research use only, not for use in diagnostic procedures.