

FAM13C1 (H-261): sc-134966

BACKGROUND

FAM13C1 (family with sequence similarity 13, member C), also known as FAM13C, is a 585 amino acid protein that belongs to the FAM13 family. Existing as three alternatively spliced isoforms, the gene encoding FAM13C1 maps to human chromosome 10, which contains over 800 genes, 135 million nucleotides and makes up nearly 4.5% of the human genome. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome. The chromosome 10 encoded gene ERCC6 is important for DNA repair and is linked to Cockayne syndrome which is characterized by extreme photosensitivity and premature aging. Tetrahydrobiopterin deficiency and a number of syndromes involving defective skull and facial bone fusion are also linked to chromosome 10. As with most trisomies, trisomy 10 is rare and is deleterious.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM13C (human) mapping to 10q21.1.

STORAGE

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

SOURCE

FAM13C1 (H-261) is a rabbit polyclonal antibody raised against amino acids 1-261 mapping at the N-terminus of FAM13C1 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.

APPLICATIONS

FAM13C1 (H-261) is recommended for detection of FAM13C1 of 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).

Suitable for use as control antibody for FAM13C1 siRNA (h): sc-90435, FAM13C1 shRNA Plasmid (h): sc-90435-SH and FAM13C1 shRNA (h) Lentiviral Particles: sc-90435-V.

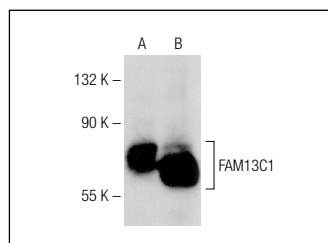
Molecular Weight of FAM13C1: 66 kDa.

Positive Controls: FAM13C1 (h2): 293T Lysate: sc-175463, mouse liver extract: sc-2256 or mouse embryo tissue extract.

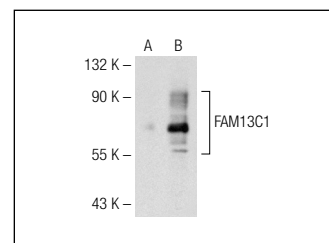
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FAM13C1 (H-261): sc-134966. Western blot analysis of FAM13C1 expression in mouse embryo (A) and mouse liver (B) tissue extracts.



FAM13C1 (H-261): sc-134966. Western blot analysis of FAM13C1 expression in non-transfected: sc-117752 (A) and human FAM13C1 transfected: sc-175463 (B) 293T whole cell lysates.

RESEARCH USE

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