SANTA CRUZ BIOTECHNOLOGY, INC.

FAT4 (1654CT645.1.70): sc-517330

BACKGROUND

The cadherins represent a family of Ca^{2+}-dependent adhesion molecules that function to mediate cell to cell binding that is critical for the maintenance of structure and morphogenesis. Cadherins contain a large extracellular domain at the N-terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. The relatively short C-terminal intracellular domain interacts with a variety of cytoplasmic proteins, including -catenin, to regulate cadherin function. The cadherin superfamily includes cadherins, protocadherins, desmogleins and desmocollins. FAT4 (FAT tumor suppressor homolog 4), also known as FAT-J, CDHF14 or CDHR11, is a 4,981 amino acid single-pass type I membrane protein that belongs to the protocadherin subfamily of cadherins and localizes to the primary cilia of kidney. Widely expressed, FAT4 contains thirty-four cadherin domains, six EGF-like domains and two laminin G-like domains. FAT4 may function in the regulation of planar cell polarity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAT4 (human) mapping to 4q28.1.

SOURCE

FAT4 (1654CT645.1.70) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 4500-4786 of FAT4 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FAT4 (1654CT645.1.70) is recommended for detection of FAT4 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FAT4 siRNA (h): sc-88877, FAT4 shRNA Plasmid (h): sc-88877-SH and FAT4 shRNA (h) Lentiviral Particles: sc-88877-V.

Molecular Weight of FAT4: 543 kDa.

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, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

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.