SANTA CRUZ BIOTECHNOLOGY, INC.

FSD1L (D-13): sc-137488

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The Power to Question

BACKGROUND

FSD1L (fibronectin type III and SPRY domain containing 1-like), also known as CCDC10 (coiled-coil domain-containing protein 10), CSDUFD1, MIR1 or FSD1CL, is a 530 amino acid protein containing one B30.2/SPRY domain, one COS domain, and a fibronectin type-III domain. Existing as three alternatively spliced isoforms, FSD1L is expressed primarily in brain, with lower levels of expression found in thymus, pituitary and testis. FSD1L may function in microtubule binding during interphase and is encoded by a gene that maps to human chromosome 9q31.2. Chromosome 9 consists of about 145 million bases andd comprises approximately 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

REFERENCES

1. Carim-Todd, L., et al. 2001. Characterization of human FSD1, a novel brain specific gene on chromosome 19 with paralogy to 9q31. Biochim. Biophys. Acta 1518: 200-203.
2. Uzbekov, R., et al. 2002. Centrosome separation: respective role of microtubules and actin filaments. Biol. Cell 94: 275-288.
3. Stein, P.A., et al. 2002. A novel centrosome-associated protein with affinity for microtubules. J. Cell Sci. 115: 3389-3402.
4. Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. Nature 429: 369-374.
5. Zheng, X., et al. 2006. BCR and its mutants, the reciprocal t(9;22)-associated ABL/BCR fusion proteins, differentially regulate the cytoskeleton and cell motility. BMC Cancer 6: 262.
6. Hims, M.M., et al. 2007. A humanized IKBKAP transgenic mouse models a tissue-specific human splicing defect. Genomics 90: 389-396.
7. Perry, J.R., et al. 2009. Meta-analysis of genome-wide association data identifies two loci influencing age at menarche. Nat. Genet. 41: 648-650.

CHROMOSOMAL LOCATION

Genetic locus: FSD1L (human) mapping to 9q31.2; Fsd1l (mouse) mapping to 4 B2.

SOURCE

FSD1L (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FSD1L 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-137488 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FSD1L (D-13) is recommended for detection of FSD1L 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); non cross-reactive with FSD1.

Suitable for use as control antibody for FSD1L siRNA (h): sc-92850, FSD1L siRNA (m): sc-145255, FSD1L shRNA Plasmid (h): sc-92850-SH, FSD1L shRNA Plasmid (m): sc-145255-SH, FSD1L shRNA (h) Lentiviral Particles: sc-92850-V and FSD1L shRNA (m) Lentiviral Particles: sc-145255-V.

Molecular Weight of FSD1L isoforms 1/2/3: 60/56/17 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.

PROTOCOLS

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