

FCHSD1 (D-13): sc-137473

BACKGROUND

FCHSD1 (FCH and double SH3 domains protein 1) is a 690 amino acid protein that contains one FCH domain and 2 SH3 domains. FCHSD1 exists as 3 isoforms as a result of alternative splicing events. The gene encoding FCHSD1 maps to chromosome 5, which is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FCHSD1 (human) mapping to 5q31.3; Fchsd1 (mouse) mapping to 18 B3.

SOURCE

FCHSD1 (D-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of FCHSD1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-137473 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FCHSD1 (D-13) is recommended for detection of FCHSD1 isoforms 1-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with FCHSD2.

FCHSD1 (D-13) is also recommended for detection of FCHSD1 isoforms 1-3 in additional species, including equine.

Suitable for use as control antibody for FCHSD1 siRNA (h): sc-91775, FCHSD1 siRNA (m): sc-145150, FCHSD1 shRNA Plasmid (h): sc-91775-SH, FCHSD1 shRNA Plasmid (m): sc-145150-SH, FCHSD1 shRNA (h) Lentiviral Particles: sc-91775-V and FCHSD1 shRNA (m) Lentiviral Particles: sc-145150-V.

Molecular Weight of FCHSD1 isoforms 1/2/3: 77/46/41 kDa.

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) 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.

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 or our catalog for detailed protocols and support products.