CWF19L1 (L-16): sc-242527



The Power to Question

BACKGROUND

CWF19L1 (CWF19-like 1, cell cycle control) is a 538 amino acid protein belonging to the CWF19 family and exists as three alternatively spliced isoforms. CWF19L1 is encoded by a gene located on human chromosome 10, which spans nearly 135 million base pairs, makes up approximately 4.5% of total DNA in cells and encodes nearly 1,200 genes. Several protein-coding genes, including those that encode for chemokines, cadherins, excision repair proteins, early growth response factors (Egrs) and fibroblast growth receptors (FGFRs), are located on chromosome 10. Defects in some of the genes that map to chromosome 10 are associated with Charcot-Marie Tooth disease, Jackson-Weiss syndrome, Usher syndrome, nonsyndromatic deafness, Wolman's syndrome, Cowden syndrome, multiple endocrine neoplasia type 2 and porphyria.

REFERENCES

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- Berger, P., et al. 2002. Molecular cell biology of Charcot-Marie-Tooth disease. Neurogenetics 4: 1-15.
- Teresi, R.E., et al. 2007. Cowden syndrome-affected patients with PTEN promoter mutations demonstrate abnormal protein translation. Am. J. Hum. Genet. 81: 756-767.
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CHROMOSOMAL LOCATION

Genetic locus: CWF19L1 (human) mapping to 10q24.31; Cwf19l1 (mouse) mapping to 19 C3.

SOURCE

CWF19L1 (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CWF19L1 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-242527 P, (100 μ g 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

CWF19L1 (L-16) is recommended for detection of CWF19L1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 CWF19L2.

CWF19L1 (L-16) is also recommended for detection of CWF19L1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CWF19L1 siRNA (h): sc-90784, CWF19L1 siRNA (m): sc-142640, CWF19L1 shRNA Plasmid (h): sc-90784-SH, CWF19L1 shRNA Plasmid (m): sc-142640-SH, CWF19L1 shRNA (h) Lentiviral Particles: sc-90784-V and CWF19L1 shRNA (m) Lentiviral Particles: sc-142640-V.

Molecular Weight of CWF19L1 isoform 1: 61 kDa.

Molecular Weight of CWF19L1 isoform 2: 28 kDa.

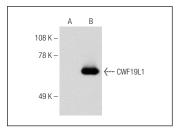
Molecular Weight of CWF19L1 isoform 3: 46 kDa.

Positive Controls: CWF19L1 (m): 293T Lysate: sc-119531.

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



CWF19L1 (L-16): sc-242527. Western blot analysis of CWF19L1 expression in non-transfected: sc-117752 (A) and mouse CWF19L1 transfected: sc-119531 (B) 293T whole cell lysates.

STORAGE

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