VWC1 (N-17): sc-244597



The Power to Question

BACKGROUND

VWC1, also known as VWCE (von Willebrand factor C and EGF domains), HBV X protein up-regulated gene 11 protein or URG11, is a 955 amino acid secreted protein that functions as a regulatory element during the β -catenin signaling pathway. Existing as two alternatively spliced isoforms, VWC1 is expressed in liver and has been shown to be upregulated in uHepG2 cells expressing Hep B xAg (hepatitis B virus X antigen). VWC1 contains four EGF-like domains, six VWFC domains, and is considered a target for prevention of hepatocarcinogenesis. The gene encoding VWC1 maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that maps to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: VWCE (human) mapping to 11q12.2; Vwce (mouse) mapping to 19 A.

SOURCE

VWC1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of VWC1 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-244597 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VWC1 (N-17) is recommended for detection of VWC1 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 VWC2.

VWC1 (N-17) is also recommended for detection of VWC1 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for VWC1 siRNA (h): sc-96303, VWCE siRNA (m): sc-155238, VWC1 shRNA Plasmid (h): sc-96303-SH, VWCE shRNA Plasmid (m): sc-155238-SH, VWC1 shRNA (h) Lentiviral Particles: sc-96303-V and VWCE shRNA (m) Lentiviral Particles: sc-155238-V.

Molecular Weight of VWC1 isoforms: 99/23 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.

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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 **Europe** +00800 4573 8000 49 6221 4503 0 **www.scbt.com**