SANTA CRUZ BIOTECHNOLOGY, INC.

VE-cadherin-2 (N-14): sc-79818



BACKGROUND

The cadherins are a family of Ca2+-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. Cadherins each contain a large extracellular domain at the amino-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 carboxy-terminal, intracellular domain interacts with a variety of cytoplasmic proteins, including β -catenin, to regulate cadherin function. VE-caderhin-2, also known as PCDH12 (protocadherin 12), VECAD2 or PCDH12, is a 1,184 amino acid single-pass type I membrane protein that is highly expressed in vascularized tissues, including heart and placenta. VE-caderhin-2 may play an important role in cell-cell interactions and may promote homotypic calcium-dependent aggregation and adhesion at intercellular junctions.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PCDH12 (human) mapping to 5q31.3; Pcdh12 (mouse) mapping to 18 B3.

SOURCE

VE-cadherin-2 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of VE-cadherin-2 of human origin.

PRODUCT

Each vial contains 200 µg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79818 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

VE-cadherin-2 (N-14) is recommended for detection of VE-cadherin-2 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).

VE-cadherin-2 (N-14) is also recommended for detection of VE-cadherin-2 in additional species, including equine and bovine.

Suitable for use as control antibody for VE-cadherin-2 siRNA (h): sc-76896, VE-cadherin-2 siRNA (m): sc-76897, VE-cadherin-2 shRNA Plasmid (h): sc-76896-SH, VE-cadherin-2 shRNA Plasmid (m): sc-76897-SH, VE-cadherin-2 shRNA (h) Lentiviral Particles: sc-76896-V and VE-cadherin-2 shRNA (m) Lentiviral Particles: sc-76897-V.

Molecular Weight of VE-cadherin-2: 150 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.

MONOS Satisfation Guaranteed

Try VE-cadherin-2 (F-4): sc-515467, our highly recommended monoclonal alternative to VE-cadherin-2 (N-14).