

cadherin-19 (S-18): sc-84771

BACKGROUND

The cadherins are a family of Ca^{2+} -dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of structure and morphogenesis. Cadherins each contain a large extracellular domain at the N-terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. Cadherin-19, also known as CDH19, CDH7 or CDH7L2, is a 772 amino acid single-pass type I membrane protein that contains 5 cadherin domains. Expressed in a variety of tissues, cadherin-19 functions as a Ca^{2+} -dependent cell-cell adhesion glycoprotein that is thought to be involved in the sorting of heterogeneous cell types. The gene encoding cadherin-19 maps to a cadherin cluster on human chromosome 18, a chromosome which houses over 300 protein-coding genes and contains nearly 76 million bases.

CHROMOSOMAL LOCATION

Genetic locus: CDH19 (human) mapping to 18q22.1; Cdh19 (mouse) mapping to 1 E2.1.

SOURCE

cadherin-19 (S-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of cadherin-19 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-84771 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cadherin-19 (S-18) is recommended for detection of cadherin-19 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), immunohistochemistry (including paraffin-embedded sections) (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 other cadherin family members.

cadherin-19 (S-18) is also recommended for detection of cadherin-19 in additional species, including equine and canine.

Suitable for use as control antibody for cadherin-19 siRNA (h): sc-72774, cadherin-19 siRNA (m): sc-141972, cadherin-19 shRNA Plasmid (h): sc-72774-SH, cadherin-19 shRNA Plasmid (m): sc-141972-SH, cadherin-19 shRNA (h) Lentiviral Particles: sc-72774-V and cadherin-19 shRNA (m) Lentiviral Particles: sc-141972-V.

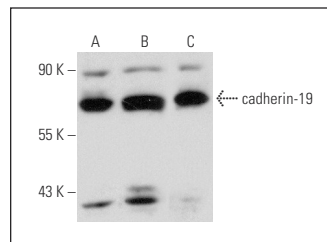
Molecular Weight of cadherin-19: 87 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, MIA PaCa-2 cell lysate: sc-2285 or TE671 cell lysate: sc-2416.

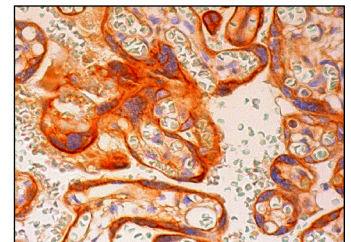
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



cadherin-19 (S-18): sc-84771. Western blot analysis of cadherin-19 expression in TE671 (A), MIA PaCa-2 (B) and IMR-32 (C) whole cell lysates.



cadherin-19 (S-18): sc-84771. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing membrane and cytoplasmic staining of trophoblastic cells.

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.


 MONOS
Satisfaction
Guaranteed

Try **cadherin-19 (D-1): sc-376990**, our highly recommended monoclonal alternative to cadherin-19 (S-18).