

cadherin-22 (L-19): sc-85461

BACKGROUND

The cadherins are a family of Ca²⁺-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-22, also known as CDH22 or PB-cadherin (pituitary and brain cadherin), is an 828 amino acid single-pass type I membrane protein that, characteristic of cadherin proteins, contains five cadherin domains. Expressed predominately in brain, cadherin-22 functions as a Ca²⁺-dependent cell adhesion protein that is thought to play an important role in tissue formation and morphogenesis, specifically in neural cells during the development and maintenance of brain tissue.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CDH22 (human) mapping to 20q13.12; Cdh22 (mouse) mapping to 2 H3.

SOURCE

cadherin-22 (L-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of cadherin-22 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-85461 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cadherin-22 (L-19) is recommended for detection of cadherin-22 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 other cadherin family members.

cadherin-22 (L-19) is also recommended for detection of cadherin-22 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for cadherin-22 siRNA (h): sc-72775, cadherin-22 siRNA (m): sc-141973, cadherin-22 shRNA Plasmid (h): sc-72775-SH, cadherin-22 shRNA Plasmid (m): sc-141973-SH, cadherin-22 shRNA (h) Lentiviral Particles: sc-72775-V and cadherin-22 shRNA (m) Lentiviral Particles: sc-141973-V.

Molecular Weight of cadherin-22: 89 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.