cadherin-20 (L-14): sc-68146



The Power to Question

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-20, also known as protocadherin γ B4, is a member of the protocadherin γ gene cluster. Expressed primarily in fibroblasts, cadherin-20 plays a critical role in neuronal cell-cell connections in the brain. Through its ability to mediate cell-cell adhesion, cadherin-20 is thought to help the body respond to injury by regulating post-traumatic wound healing.

REFERENCES

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- Weiner, J.A., et al. 2005. γ protocadherins are required for synaptic development in the spinal cord. Proc. Natl. Acad. Sci. USA 102: 8-14.
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CHROMOSOMAL LOCATION

Genetic locus: PCDHGB4 (human) mapping to 5q31.3; Pcdhgb4 (mouse) mapping to 18 B3.

SOURCE

cadherin-20 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of cadherin-20 of human origin.

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.

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-68146 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cadherin-20 (L-14) is recommended for detection of cadherin-20 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

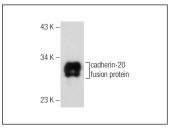
Suitable for use as control antibody for cadherin-20 siRNA (h): sc-62052, cadherin-20 siRNA (m): sc-62053, cadherin-20 shRNA Plasmid (h): sc-62052-SH, cadherin-20 shRNA Plasmid (m): sc-62053-SH, cadherin-20 shRNA (h) Lentiviral Particles: sc-62052-V and cadherin-20 shRNA (m) Lentiviral Particles: sc-62053-V.

Molecular Weight of cadherin-20: 100 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) 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



cadherin-20 (L-14): sc-68146. Western blot analysis of human recombinant cadherin-20 fusion protein.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.