

# BR-cadherin (C-19): sc-6977

## BACKGROUND

The cadherins are a family of  $\text{Ca}^{2+}$ -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 catenin b, to regulate cadherin function. BR-cadherin (for brain-cadherin, also designated cadherin-12 or N-cadherin 2) is expressed specifically in neurons in the central nervous system and is thought to be involved in neuronal development.

## REFERENCES

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8. Selig, S., Lidov, H.G., Bruno, S.A., Segal, M.M. and Kunkel, L.M. 1997. Molecular characterization of BR-cadherin, a developmentally regulated, brain-specific cadherin. *Proc. Natl. Acad. Sci. USA* 94: 2398-2403.

## CHROMOSOMAL LOCATION

Genetic locus: CDH12 (human) mapping to 5p14.3.

## SOURCE

BR-cadherin (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of BR-cadherin of human origin.

## PRODUCT

Each vial contains 200  $\mu\text{g}$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6977 P, (100  $\mu\text{g}$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BR-cadherin (C-19) is recommended for detection of BR-cadherin of 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).

BR-cadherin (C-19) is also recommended for detection of BR-cadherin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for BR-cadherin siRNA (h): sc-43011, BR-cadherin shRNA Plasmid (h): sc-43011-SH and BR-cadherin shRNA (h) Lentiviral Particles: sc-43011-V.

Molecular Weight of BR-cadherin: 86 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.