

PCDHB11 (N-13): sc-109761

BACKGROUND

PCDHB11 (protocadherin β -11) is a 797 amino acid type I membrane protein that contains 6 cadherin domains. As a potential calcium-dependent cell-adhesion protein, PCDHB11 may be involved in the establishment and maintenance of specific neuronal connections in the brain. The gene that encodes PCDHB11 maps to human chromosome 5q31, and is a member of the protocadherin β gene cluster. This gene cluster is one of three related gene clusters tandemly linked on chromosome 5. It demonstrates an unusual genomic organization similar to that of B-cell and T-cell receptor gene clusters. Containing 16 genes and 3 pseudogenes, the β gene cluster encodes 6 extracellular cadherin domains and a cytoplasmic tail that deviates from others in the cadherin superfamily. The extracellular domains interact in a homophilic manner to specify differential cell-cell connections.

REFERENCES

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8. Frank, M. and Kemler, R. 2002. Protocadherins. *Curr. Opin. Cell Biol.* 14: 557-562.
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CHROMOSOMAL LOCATION

Genetic locus: PCDHB11 (human) mapping to 5q31.3.

SOURCE

PCDHB11 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of PCDHB11 of human origin.

PRODUCT

Each vial contains 200 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-109761 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PCDHB11 (N-13) is recommended for detection of PCDHB11 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); non cross-reactive with other PCDHB family members.

Suitable for use as control antibody for PCDHB11 siRNA (h): sc-91651, PCDHB11 shRNA Plasmid (h): sc-91651-SH and PCDHB11 shRNA (h) Lentiviral Particles: sc-91651-V.

Molecular Weight of PCDHB11: 87 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.

PROTOCOLS

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