PCDHA11 (S-14): sc-103747



The Power to Question

BACKGROUND

Protocadherins are a large family of cadherin-like cell adhesion proteins that are involved in the establishment and maintenance of neuronal connections in the brain. There are three protocadherin (PCDH) gene clusters, designated $\alpha,\,\beta$ and $\gamma,$ all of which contain multiple tandemly arranged genes. The protein products of PCDH- α genes interact with Integrin $\beta 1$ to promote cell adhesion and form oligomers with PCDH- γ proteins at specific membrane sites. PCDHA11 (protocadherin α -11) is a 949 amino acid single-pass transmembrane protein that contains 6 cadherin domains and functions as a potential calcium-dependent cell-adhesion protein, possibly playing a role in the creation and maintenance of neuronal connections. There are two isoforms of PCDHA11 that are produced as a result of alternative splicing events.

REFERENCES

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- 4. Ribich, S., et al. 2006. Identification of long-range regulatory elements in the protocadherin- α gene cluster. Proc. Natl. Acad. Sci. USA 103: 19719-19724.
- 5. Bonn, S., et al. 2007. Combinatorial expression of α and γ -protocadherins alters their presenilin-dependent processing. Mol. Cell. Biol. 27: 4121-4132.
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CHROMOSOMAL LOCATION

Genetic locus: PCDHA11 (human) mapping to 5q31.3.

SOURCE

PCDHA11 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of PCDHA11 of human origin.

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-103747 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PCDHA11 (S-14) is recommended for detection of PCDHA11 of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PCDHA11 siRNA (h): sc-106368, PCDHA11 shRNA Plasmid (h): sc-106368-SH and PCDHA11 shRNA (h) Lentiviral Particles: sc-106368-V.

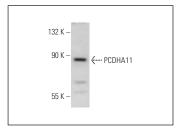
Molecular Weight of PCDHA11: 103 kDa.

Positive Controls: U-698-M whole cell lysate: sc-364799.

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



PCDHA11 (S-14): sc-103747. Western blot analysis of PCDHA11 expression in U-698-M whole cell lysate.

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.