SANTA CRUZ BIOTECHNOLOGY, INC.

# PCDH2 (T-19): sc-79581

SANTA CRUZ BIOTECHNOLOGY

*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 gene clusters, designated α, β and γ, all of which contain multiple tandemly arranged genes. PCDH2 (protocadherin-2), also known as PCDHGC3 (protocadherin γ subfamily C, 3) or PC43, is a 934 amino acid single-pass type I membrane protein that contains 6 cadherin domains and belongs to the protocadherin γ family. Functioning as a calcium-dependent cell-adhesion protein, PCDH2 is thought to be involved in the establishment and maintenance of neuronal connections within the brain. Multiple isoforms of PCDH2 exist due to alternative splicing events.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: PCDHGC3 (human) mapping to 5q31.3; Pcdhgc3 (mouse) mapping to 18 B3.

## SOURCE

PCDH2 (T-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of PCDH2 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79581 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

PCDH2 (T-19) is recommended for detection of PCDH2 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).

PCDH2 (T-19) is also recommended for detection of PCDH2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for PCDH2 siRNA (h): sc-76082, PCDH2 siRNA (m): sc-76083, PCDH2 shRNA Plasmid (h): sc-76082-SH, PCDH2 shRNA Plasmid (m): sc-76083-SH, PCDH2 shRNA (h) Lentiviral Particles: sc-76082-V and PCDH2 shRNA (m) Lentiviral Particles: sc-76083-V.

Molecular Weight (predicted) of PCDH2: 101 kDa.

Molecular Weight (observed) of PCDH2: 118-137 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## 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.

## PROTOCOLS

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