# PCDHA7 (K-12): sc-103784



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- $\alpha$  genes interact with Integrin  $\beta 1$  to promote cell adhesion and form oligomers with PCDH- $\gamma$  proteins at specific membrane sites. PCDHA7 (protocadherin  $\alpha$ -7) is a 937 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 PCDHA7 that are produced as a result of alternative splicing events.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: Pcdha7 (mouse) mapping to 18 B2.

# SOURCE

PCDHA7 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PCDHA7 of mouse origin.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-103784 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

PCDHA7 (K-12) is recommended for detection of PCDHA7 of mouse 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).

Suitable for use as control antibody for PCDHA7 siRNA (m): sc-106382, PCDHA7 shRNA Plasmid (m): sc-106382-SH and PCDHA7 shRNA (m) Lentiviral Particles: sc-106382-V.

Molecular Weight of PCDHA7: 101 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.

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