



## PDAP1 (N-12): sc-104582

### BACKGROUND

PDGF is a mitogen for mesenchyme- and glia-derived cells. It consists of two disulfide-bonded polypeptide chains, A and B, and occurs as three isoforms; PDGF AA, AB and BB. Evidence suggests that PDGF may function as a neurotrophic factor. Receptors for PDGF-A are expressed in oligodendrocyte progenitor cells whereas receptors for PDGF-B are expressed on neurons. These facts suggest that the different isoforms of PDGF may regulate growth and differentiation of different cell types in the developing central nervous system through paracrine and autocrine routes. PDAP1 (PDGFA-associated protein 1), also known as 28 kDa heat- and acid-stable phosphoprotein, is a 181 amino acid protein that interacts with PDGF. PDAP1 has been found to enhance PDGF-A-stimulated cell growth and inhibit the mitogenic effect of PDGF-B. PDAP1 is expressed in all tissue except liver, with highest levels found in brain.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PDAP1 (human) mapping to 7q22.1; Pdap1 (mouse) mapping to 5 G2.

### 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.

### SOURCE

PDAP1 (N-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of PDAP1 of human origin.

### 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-104582 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PDAP1 (N-12) is recommended for detection of PDAP1 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).

Suitable for use as control antibody for PDAP1 siRNA (h): sc-89679, PDAP1 siRNA (m): sc-106388, PDAP1 shRNA Plasmid (h): sc-89679-SH, PDAP1 shRNA Plasmid (m): sc-106388-SH, PDAP1 shRNA (h) Lentiviral Particles: sc-89679-V and PDAP1 shRNA (m) Lentiviral Particles: sc-106388-V.

Molecular Weight of PDAP1: 21 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.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.