



## PCBP4 (D-14): sc-100086

### BACKGROUND

Poly(rC)-binding protein 4 (PCBP4), also known as  $\alpha$ CP-4, is a 403 amino acid protein belonging to the  $\alpha$ CP subfamily.  $\alpha$ CP proteins bind to RNA at specific C-rich pyrimidine regions and have various important roles in post-transcriptional activities. PCBP4 binds preferentially to single-stranded nucleic acid oligo-dC. Localized to the cytoplasm, PCBP4 contains four KH domains, which are RNA binding sites. The gene that encodes PCBP4 is induced by the p53 tumor suppressor and PCBP4 has been shown to induce apoptosis and cell cycle arrest in G<sub>2</sub>-M. PCBP4 is expressed as two isoforms produced by alternative splicing.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: PCBP4 (human) mapping to 3p21.1; Pcbp4 (mouse) mapping to 9 F1.

### SOURCE

PCBP4 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PCBP4 of human origin.

### STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

### PRODUCT

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

Blocking peptide available for competition studies, sc-100086 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

PCBP4 (D-14) is recommended for detection of PCBP4 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); non cross-reactive with family member PCBP30T.

Suitable for use as control antibody for PCBP4 siRNA (h): sc-77949, PCBP4 siRNA (m): sc-152052, PCBP4 shRNA Plasmid (h): sc-77949-SH, PCBP4 shRNA Plasmid (m): sc-152052-SH, PCBP4 shRNA (h) Lentiviral Particles: sc-77949-V and PCBP4 shRNA (m) Lentiviral Particles: sc-152052-V.

Molecular Weight of PCBP4 isoforms: 45/38 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.

### RESEARCH USE

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

### PROTOCOLS

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