

PCBP4 (B-25): sc-133890

BACKGROUND

Poly(rC)-binding protein 4 (PCBP4), also known as α CP-4, is a 403 amino acid protein belonging to the α CP subfamily. α 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 G₂-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 (B-25) is an affinity purified rabbit polyclonal antibody raised against synthetic PCBP4 peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

PCBP4 (B-25) is recommended for detection of PCBP4 of mouse, rat, human and canine 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

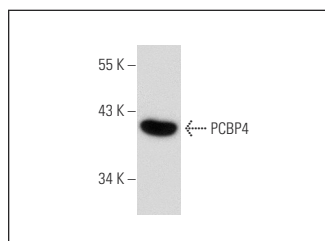
Molecular Weight of PCBP4 isoforms: 45/38 kDa.

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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

DATA



PCBP4 (B-25): sc-133890. Western blot analysis of PCBP4 expression in Jurkat 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.