

**Anti-PC4 Picoband Antibody**  
**Catalog # ABO11716****Specification**

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**Anti-PC4 Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P53999</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Activated RNA polymerase II transcriptional coactivator p15(SUB1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-PC4 Picoband Antibody - Additional Information**

**Gene ID** 10923

**Other Names**

Activated RNA polymerase II transcriptional coactivator p15, Positive cofactor 4, PC4, SUB1 homolog, p14, SUB1, PC4, RPO2TC1

**Calculated MW**

14395 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, Rat

**Subcellular Localization**

Nucleus.

**Protein Name**

Activated RNA polymerase II transcriptional coactivator p15

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human PC4 (96-127aa MKPGRKGISLNPEQWSQLKEQISDIDDAVRKL), different from the related mouse and rat sequences by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-PC4 Picoband Antibody - Protein Information**

**Name** SUB1

**Synonyms** PC4, RPO2TC1

**Function**

General coactivator that functions cooperatively with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. May be involved in stabilizing the multiprotein transcription complex. Binds single-stranded DNA. Also binds, in vitro, non-specifically to double-stranded DNA (ds DNA).

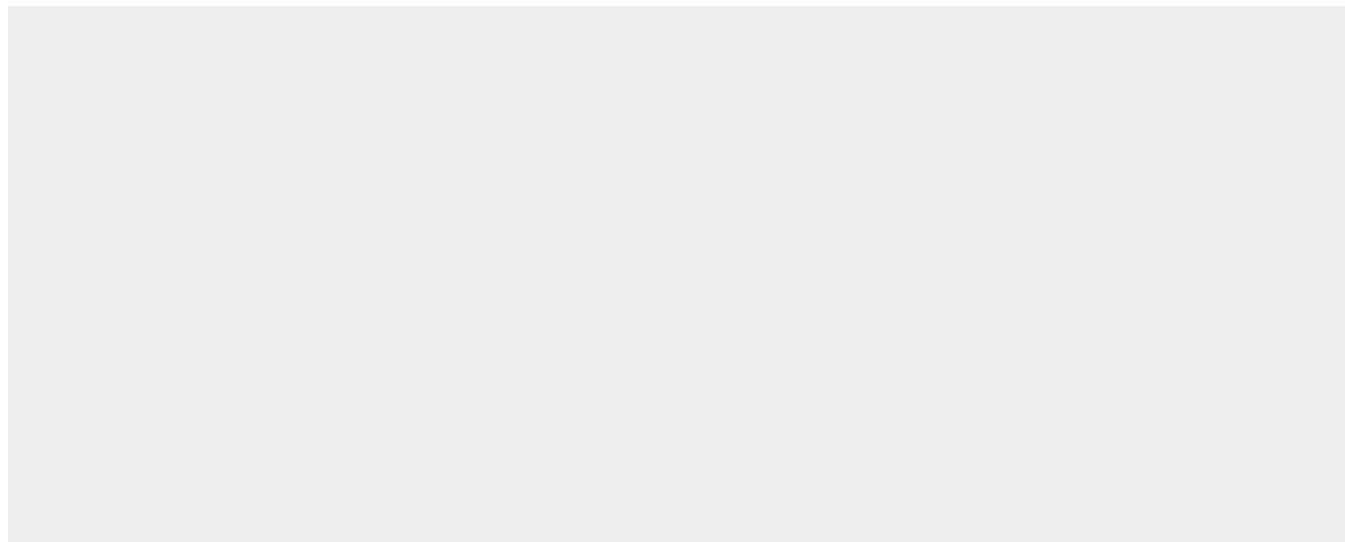
**Cellular Location**

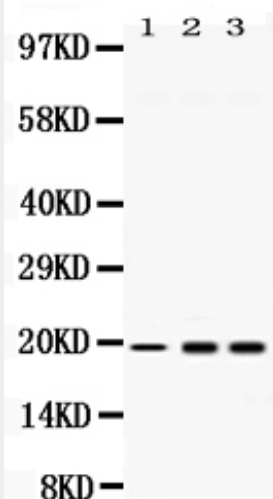
Nucleus.

**Anti-PC4 Picoband Antibody - Protocols**

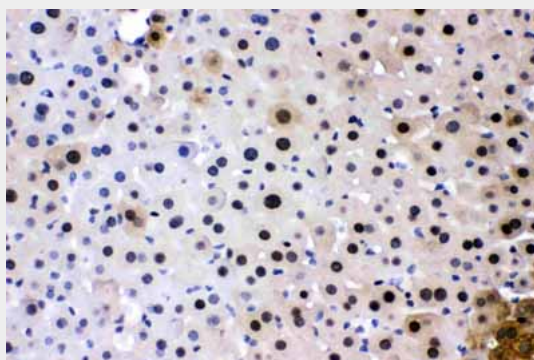
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

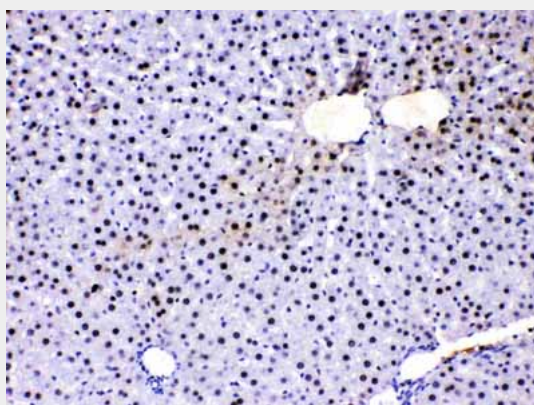
**Anti-PC4 Picoband Antibody - Images**



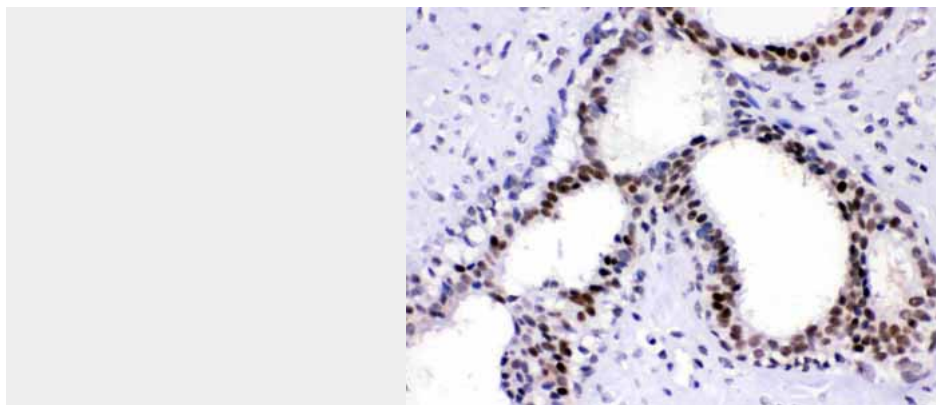
Western blot analysis of PC4 expression in rat liver extract (lane 1), HELA whole cell lysates (lane 2) and U2OS whole cell lysates (lane 3). PC4 at 19KD was detected using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



PC4 was detected in paraffin-embedded sections of mouse liver tissues using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



PC4 was detected in paraffin-embedded sections of rat liver tissues using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 1 µg/mL. The immunohistochemical section was developed using SABC method .



PC4 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-PC4 Picoband Antibody - Background**

Activated RNA polymerase II transcriptional coactivator p15, also known as positive cofactor 4 (PC4) or SUB1 homolog, is a protein that in humans is encoded by the SUB1 gene. This gene is mapped to 5p13.3. The transcriptional cofactor PC4 is an ancient single-strand DNA (ssDNA)-binding protein that has a homologue in bacteriophage T5 where it is likely the elusive replicative ssDNA-binding protein. The recombinant PC4 is shown to function identically to the native protein through its interaction with TAFs.