

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

Application	WB, IHC
Primary Accession	P53999
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 Na₂HPO₄, 0.05mg Na₃N.

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).

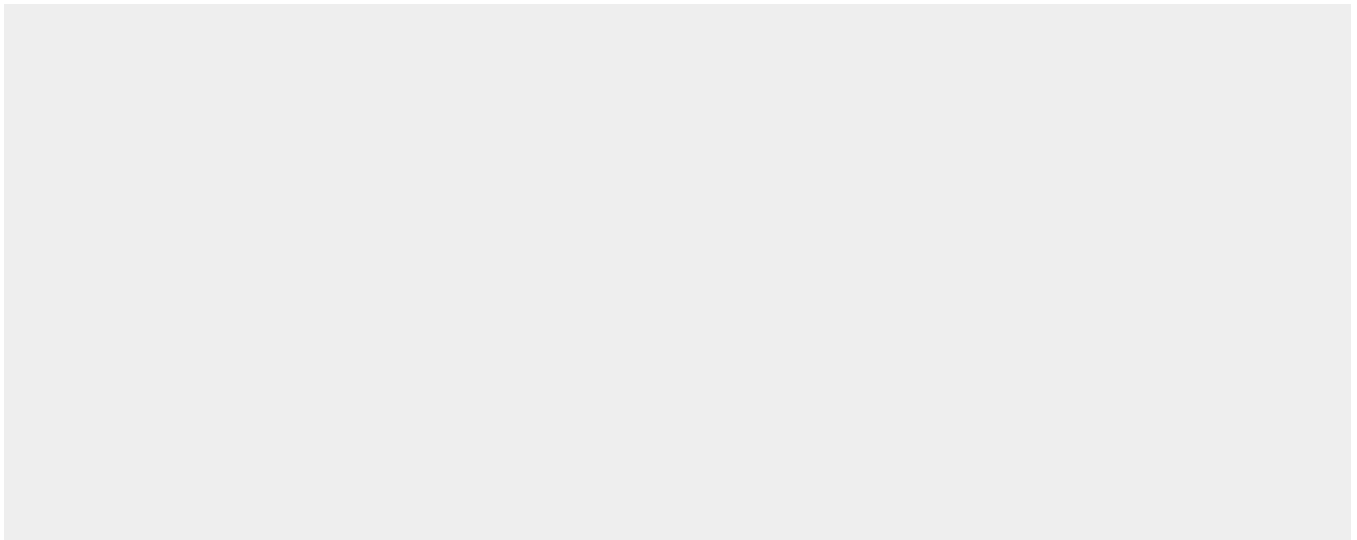
Cellular Location

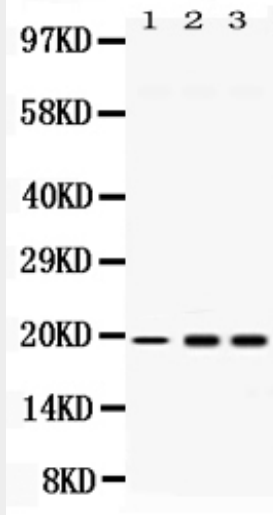
Nucleus.

Anti-PC4 Picoband Antibody - Protocols

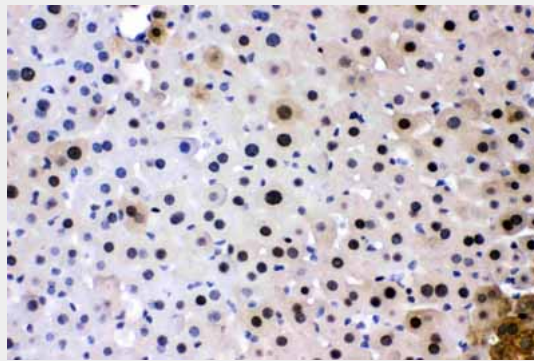
Provided below are standard protocols that you may find useful for product applications.

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

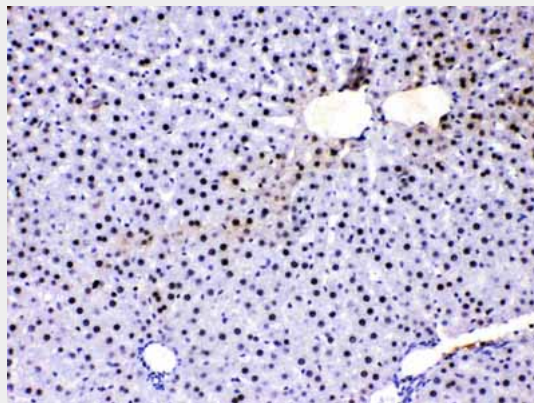
Anti-PC4 Picoband Antibody - Images



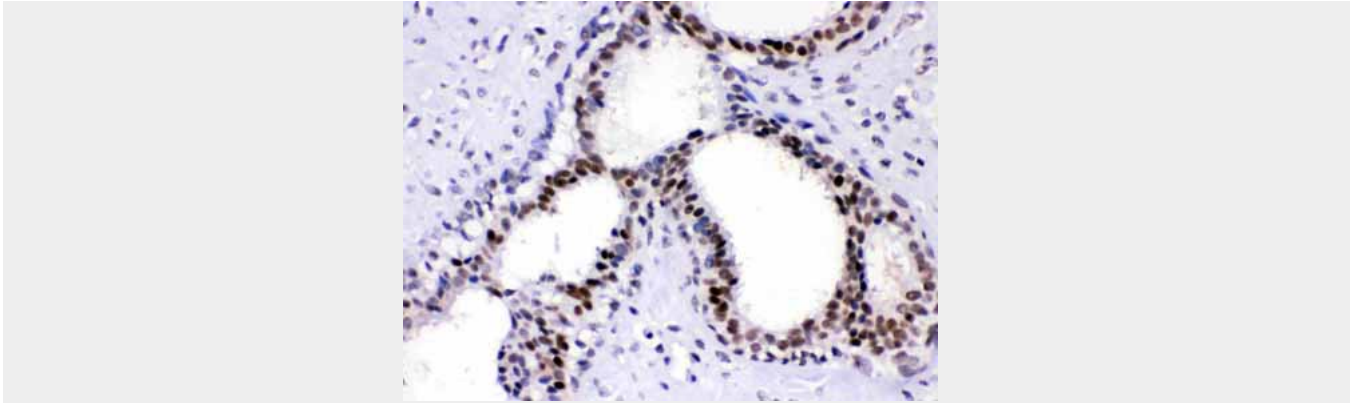
Western blot analysis of PC4 expression in rat liver extract (lane 1), HELA whole cell lysates (lane 2) and U2OS whole cell lysates (lane 3). PC4 at 19KD was detected using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 0.5 µg/mL. The blot was developed using chemiluminescence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