

Anti-PC4 Picoband Antibody

Catalog # ABO11716

Product Information

Application	WB, IHC-P
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.

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
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.
Source	Eukaryota
Protein Name	Activated RNA polymerase II transcriptional coactivator p15
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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.

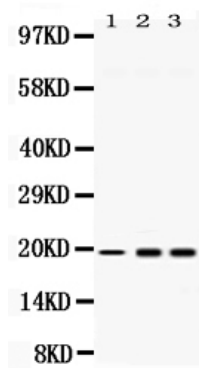
Protein Information

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.

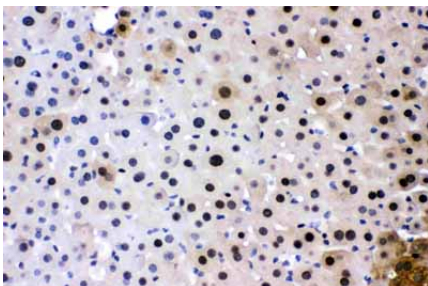
Background

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.

Images

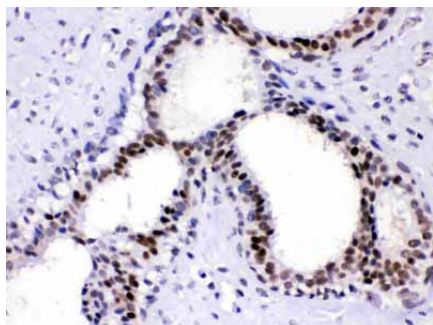
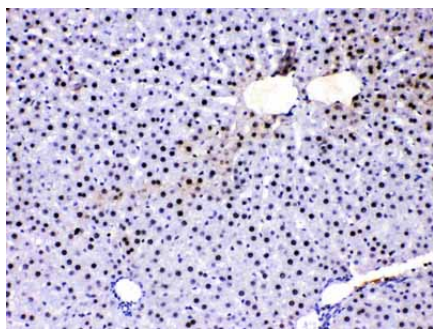


Western blot analysis of PC4 expression in rat liver extract (lane 1), HELA whole cell lysates (lane 2) and U2OS whole cell lysates (lane 3). PC4 at 19KD was detected using rabbit anti- PC4 Antigen Affinity purified polyclonal antibody (Catalog # ABO11716) at 0.5 µg/mL. The blot was developed using chemiluminescence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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.