

## Product datasheet

# Anti-PC4 antibody ab84459

1 References 3 Images

### Overview

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<b>Product name</b>	Anti-PC4 antibody
<b>Description</b>	Rabbit polyclonal to PC4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Rhesus monkey, Gorilla, Orangutan, Platypus 
<b>Immunogen</b>	Synthetic peptide corresponding to a region between residues 77 and 127 of Human PC4 (NP_006704.2)
<b>Positive control</b>	Human: bladder carcinoma, breast carcinoma, colon carcinoma, linitis plastica stomach cancer, ovarian carcinoma, pancreatic islet cell tumor, prostate carcinoma, skin basal cell carcinoma, skin melanoma, skin squamous cell carcinoma, small cell lung cancer, stomach adenocarcinoma, testicular seminoma. Mouse: skin, seratoma

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab84459** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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IHC-P

**Application notes**

IHC-P: 1/100 - 1/500. Antigen retrieval with citrate buffer may improve staining.  
 Note: likely to work with frozen sections.

Not yet tested in other applications.  
 Optimal dilutions/concentrations should be determined by the end user.

**Target**

**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).

**Sequence similarities**

Belongs to the transcriptional coactivator PC4 family.

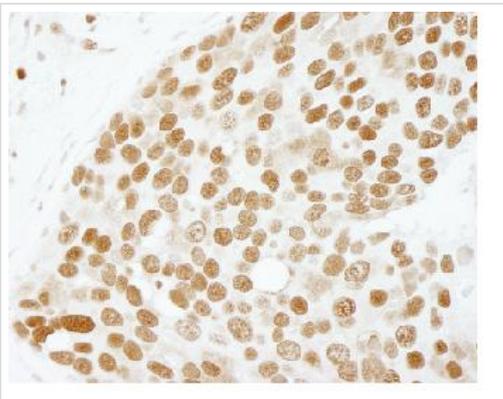
**Post-translational modifications**

Activity is controlled by protein kinases that target the regulatory region. Phosphorylation inactivates both ds DNA-binding and cofactor function, but does not affect binding to ssDNA. Seems to be phosphorylated in vivo by CK2 in at least 7 sites in the N-terminal Ser-rich region.

**Cellular localization**

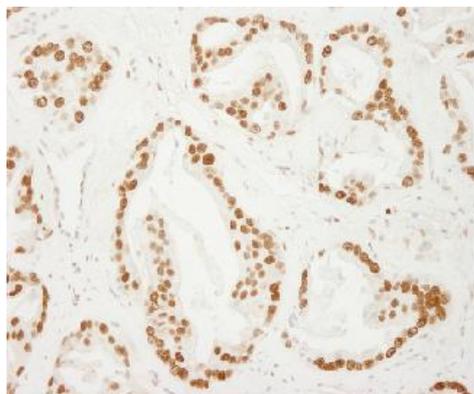
Nucleus.

**Images**



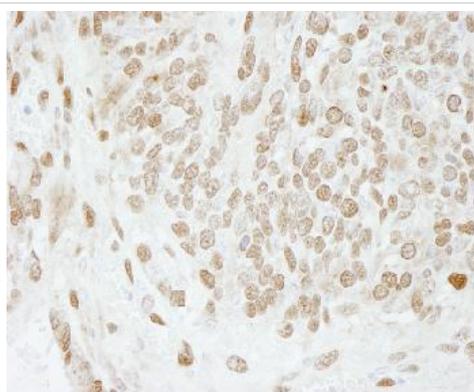
Immunohistochemistry analysis of formalin-fixed, paraffin-embedded Human breast carcinoma tissue using 1/250 ab84459, followed by DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab84459)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded Human prostate carcinoma tissue using 1/250 ab84459, followed by DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab84459)



Immunohistochemistry analysis of formalin-fixed, paraffin-embedded Mouse teratoma tissue using 1/250 ab84459, followed by DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab84459)

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