

Product datasheet

Anti-PC4 antibody ab244248

6 Images

Overview

Product name	Anti-PC4 antibody
Description	Rabbit polyclonal to PC4
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cynomolgus monkey, Orangutan
Immunogen	Recombinant fragment corresponding to Human PC4 aa 8-117. Sequence: VSSSSSGSDSDSEVDKCLKRKKQVAPEKPVKKQKTGET SRALSSSKQSSS SRDDNMFQIGKMRYSVRDFKGVLDIREYWMDPEGEM KPGRKGISLNP EQWSQLKEQI Database link: P53999 Run BLAST with Run BLAST with
Positive control	ICC/IF: U-2 OS cells. WB: RPMI-8226 cell lysate. IHC-P: Human cerebellum, tonsil, skeletal muscle and rectum tissue.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p>

special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab244248** in the following tested applications.

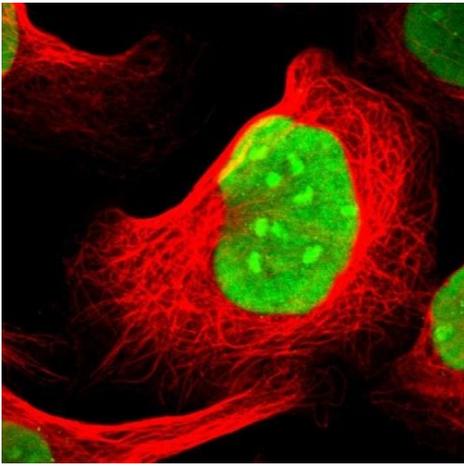
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 14 kDa.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

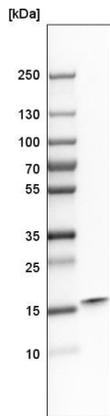
Function	General coactivator that functions cooperatively with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. May be involved in stabilizing the multiprotein transcription complex. Binds single-stranded DNA. Also binds, in vitro, non-specifically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



Immunocytochemistry/ Immunofluorescence - Anti-PC4 antibody (ab244248)

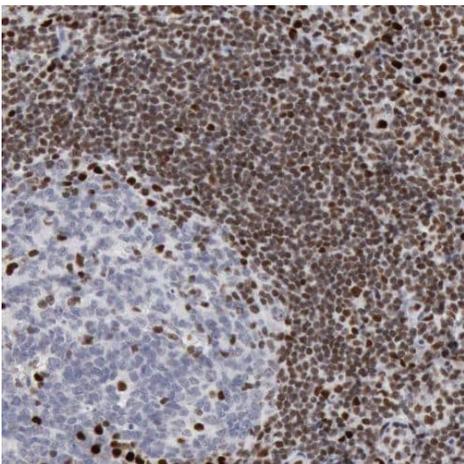
PFA fixed, Triton X-100 permeabilized U-2 OS (Human bone osteosarcoma epithelial cell line) cells labeling PC4 using ab244248 at 4 $\mu\text{g/ml}$ (green) in ICC/IF.



Western blot - Anti-PC4 antibody (ab244248)

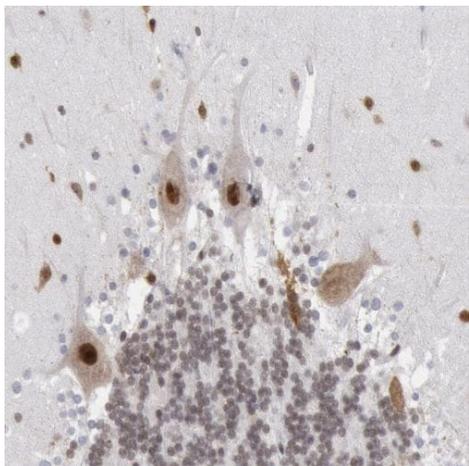
Anti-PC4 antibody (ab244248) at 0.4 $\mu\text{g/ml}$ + RPMI-8226 (Human cell line) cell lysate

Predicted band size: 14 kDa



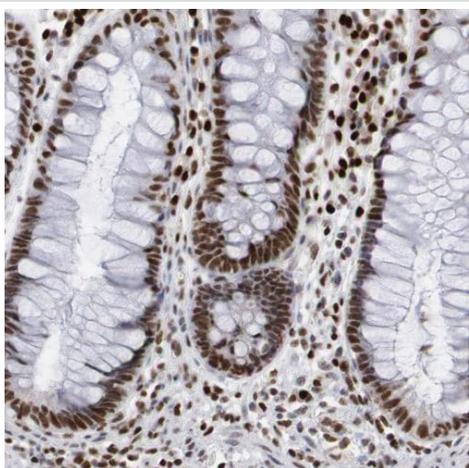
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab244248)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for PC4 with ab244248 at a 1/200 dilution in immunohistochemical analysis.



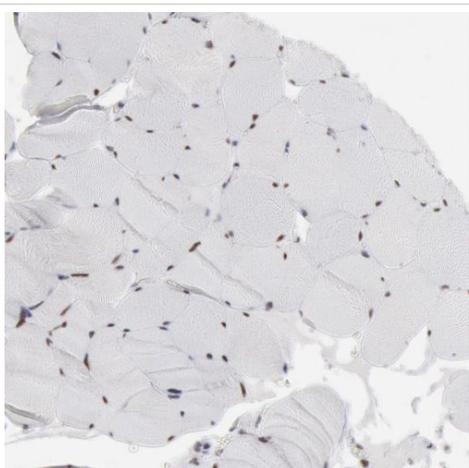
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab244248)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for PC4 with ab244248 at a 1/200 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab244248)

Formalin-fixed, paraffin-embedded human rectum tissue stained for PC4 with ab244248 at a 1/200 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PC4 antibody (ab244248)

Formalin-fixed, paraffin-embedded human skeletal muscle tissue stained for PC4 with ab244248 at a 1/200 dilution in immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors