abcam

Product datasheet

Anti-Anillin antibody ab5910

5 Abreviews 8 References 4 Images

Overview

Product name	Anti-Anillin antibody
Description	Goat polyclonal to Anillin
Host species	Goat
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Cow
Immunogen	Synthetic peptide corresponding to Human Anillin aa 1100 to the C-terminus (C terminal). (NP_001271230.1; NP_001271231.1) Database link: **Q9NQW6** Run BLAST with Run BLAST with
Positive control	ICC/IF: U2OS cells. Flow Cyt (intra): MCF7 cells. IHC-P: Human kidney tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab5910 in the following tested applications.

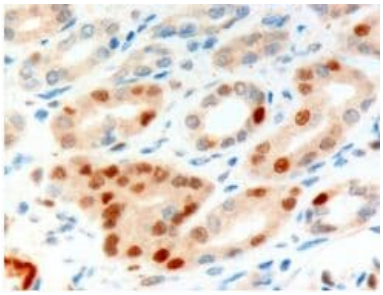
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
ICC/IF	★☆☆☆☆ (3)	Use a concentration of 10 µg/ml.
IHC-P	★★★★☆ (1)	Use a concentration of 3 - 10 µg/ml.

Target

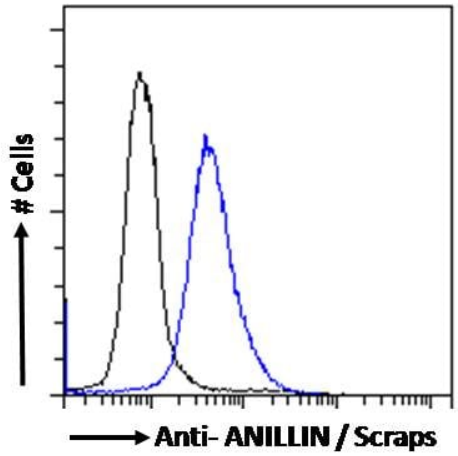
Function	Required for cytokinesis. Essential for the structural integrity of the cleavage furrow and for completion of cleavage furrow ingression.
Tissue specificity	Ubiquitously expressed. Present at highest levels in the brain, at high levels in the placenta and testis, at intermediate levels in the intestine, ovary, skeletal muscle and thymus and at lower levels in heart, kidney, liver, lung, pancreas, prostate and spleen. Overexpressed in many tumor types including breast, colorectal, endometrial, hepatic, kidney, lung, ovarian and pancreatic tumors.
Sequence similarities	Contains 1 PH domain.
Developmental stage	Expressed in fetal brain, heart, kidney, liver, lung, skeletal muscle, spleen and thymus. In dividing cells expression increases during S and G2 phases, peaks at mitosis and subsequently drops as cells enter G1 phase.
Post-translational modifications	Phosphorylated during mitosis. Ubiquitinated, and this requires FZR1/CDH1.
Cellular localization	Nucleus. Cytoplasm > cytoskeleton. Cytoplasm > cell cortex. Mainly found in the nucleus during interphase. Colocalizes with cortical F-actin upon nuclear envelope breakdown in mitosis and subsequently concentrates in the area of the prospective contractile ring in anaphase. This pattern persists until telophase, when the protein becomes concentrated in the midbody.

Images



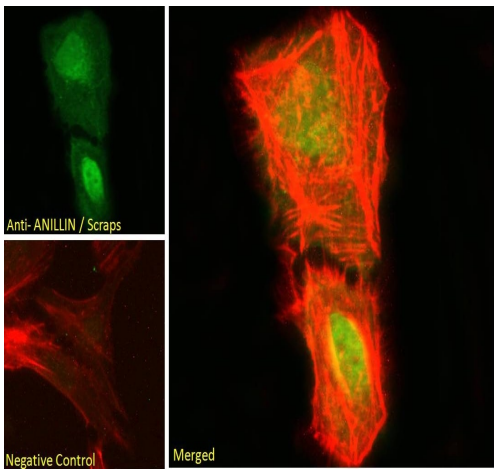
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Anillin antibody (ab5910)

ab5910 at 10ug/ml staining Anillin in human kidney tissue section by Immunohistochemistry (Formalin/PFA fixed paraffin-embedded sections). Tissue underwent antigen retrieval in microwave and in Tris/EDTA buffer (pH 9.0). HRP-staining procedure was used for detection.



Flow Cytometry (Intracellular) - Anti-Anillin antibody (ab5910)

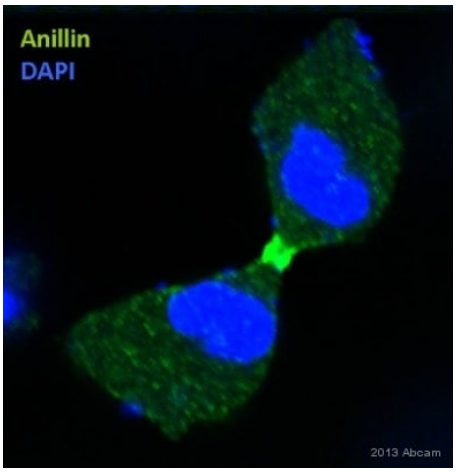
Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line) and permeabilized with 0.5% Triton using ab5910 . Primary incubation 1hr (10µg/ml) followed by Alexa Fluor 488 secondary antibody (1µg/ml). IgG control: Unimmunized goat IgG (black line) fol



Immunocytochemistry/ Immunofluorescence - Anti-Anillin antibody (ab5910)

Immunocytochemistry/Immunofluorescence analysis of U2OS cells labelling Anillin with ab5910 at 10 µg/ml. Cells were paraformaldehyde fixed and permeabilized with 0.15% triton. Primary antibody icubation was for 1 hour followed by incubation with an Alexa Fluor® 488-conjugated secondary antibody at 2 µg/ml. DAPI nuclear counterstain was used.

Negative control: Unimmunized goat IgG (10 µg/ml) followed by an Alexa Fluor® 488-conjugated secondary antibody (2 µg/ml).



Immunocytochemistry/ Immunofluorescence - Anti-Anillin antibody (ab5910)

This image is courtesy of an Abreview submitted by Manoj B Menon

ab14404 staining Anillinin Mouse fibroblast cellsby ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with methanol and blocked with 4% BSA for 2 hours at 4°C. Samples were incubated with primary antibody (1/25 in PBS + 1% BSA) for 2 hour at 25°C. An Alexa Fluor®488-conjugated Donkey anti-goat polyclonal(1/500) was used as the secondary antibody.

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