



Product datasheet

Anti-Polycystin 1/PC1 antibody ab235963

[1 References](#) [2 Images](#)

Overview

| | |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name | Anti-Polycystin 1/PC1 antibody |
| Description | Rabbit polyclonal to Polycystin 1/PC1 |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, ICC/IF |
| Species reactivity | Reacts with: Human |
| Immunogen | Recombinant fragment corresponding to Human Polycystin 1/PC1 aa 600-800. Database link: P98161 |
| |  Run BLAST with  Run BLAST with |
| Positive control | IHC-P: Human colon cancer tissue. ICC/IF: HeLa cells. |
| General notes | <p>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.</p> <p>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</p> |

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: 7.40 Preservative: 0.03% Proclin 300 Constituents: PBS, 50% Glycerol (glycerin, glycerine) |
| Purity | Protein G purified |
| Purification notes | Purity >95%. |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

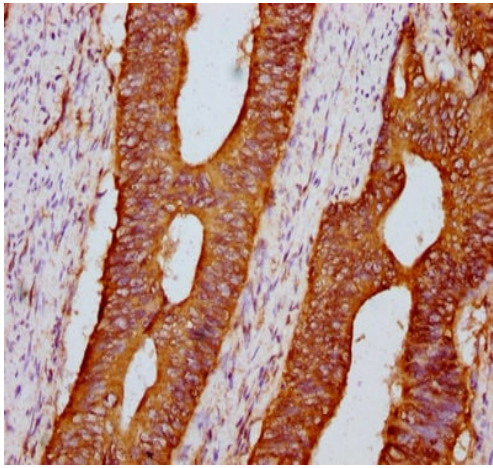
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab235963 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|-----------------|
| IHC-P | | 1/500 - 1/1000. |
| ICC/IF | | 1/200 - 1/500. |

Target

| | |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function | May be an ion-channel regulator. PKD1 and PKD2 may function through a common signaling pathway that is necessary for normal tubulogenesis. Involved in adhesive protein-protein and protein-carbohydrate interactions. |
| Involvement in disease | Defects in PKD1 are the cause of polycystic kidney disease autosomal dominant type 1 (ADPKD1) [MIM:173900]. ADPKD is characterized by progressive formation and enlargement of cysts in both kidneys, typically leading to end-stage renal disease in adult life. Cysts also occurs in the liver and other organs. Its prevalence is estimated at about 1/1000. |
| Sequence similarities | Belongs to the polycystin family. Contains 1 C-type lectin domain. Contains 1 GPS domain. Contains 1 LDL-receptor class A domain. Contains 2 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain. Contains 17 PKD domains. Contains 1 PLAT domain. Contains 1 REJ domain. Contains 1 WSC domain. |
| Domain | The LDL-receptor class A domain is atypical; the potential calcium-binding site is missing. |
| Cellular localization | Membrane. |

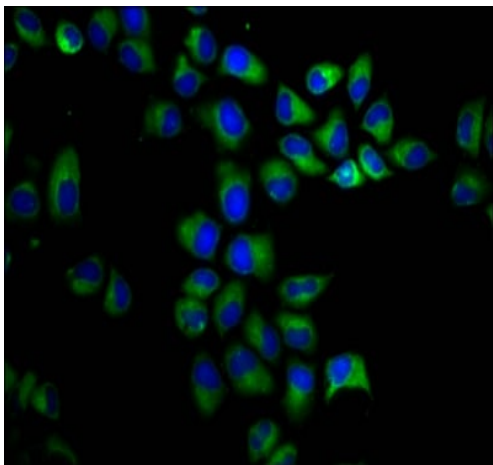
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1/PC1 antibody (ab235963)

Paraffin-embedded human colon cancer tissue stained for Polycystin1/PC1 using ab235963 at 1/600 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-Polycystin 1/PC1 antibody (ab235963)

4% formaldehyde-fixed, 0.2% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for Polycystin 1/PC1 (green) using ab235963 at 1/200 dilution in ICC/IF, followed by Alexa Fluor 488[®] conjugated Goat Anti-Rabbit IgG (H+L). Counter-stained with DAPI.

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