


Product datasheet

Anti-Polycystin 1/PC1 antibody [7e12] ab74115

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Overview

Product name	Anti-Polycystin 1/PC1 antibody [7e12]
Description	Mouse monoclonal [7e12] to Polycystin 1/PC1
Host species	Mouse
Tested applications	Suitable for: IHC-P Unsuitable for: Flow Cyt (Intra) or WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human Polycystin 1/PC1 (N terminal). This antibody was produced to the flank-leucine rich repeat-flank region (24-180aa).
Epitope	This antibody was produced to the flank-leucine rich repeat-flank region (24-180aa).
Positive control	IHC-P: Human liver, bone marrow and kidney tissue.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified

Clonality	Monoclonal
Clone number	7e12
Myeloma	NS1
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab74115 in the following tested applications.

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

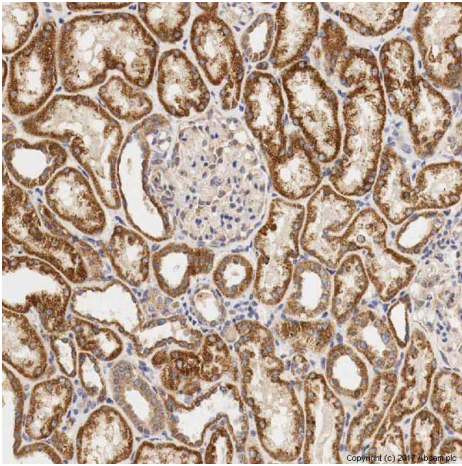
Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml.

Application notes Is unsuitable for Flow Cyt (Intra) or WB.

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	<p>Belongs to the polycystin family.</p> <p>Contains 1 C-type lectin domain.</p> <p>Contains 1 GPS domain.</p> <p>Contains 1 LDL-receptor class A domain.</p> <p>Contains 2 LRR (leucine-rich) repeats.</p> <p>Contains 1 LRRCT domain.</p> <p>Contains 1 LRRNT domain.</p> <p>Contains 17 PKD domains.</p> <p>Contains 1 PLAT domain.</p> <p>Contains 1 REJ domain.</p> <p>Contains 1 WSC domain.</p>
Domain	The LDL-receptor class A domain is atypical; the potential calcium-binding site is missing.
Cellular localization	Membrane.

Images

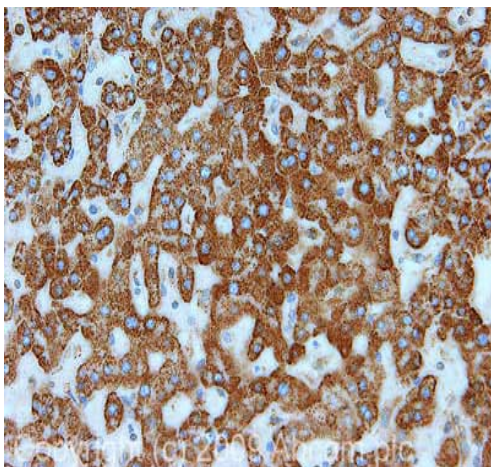


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1/PC1 antibody [7e12] (ab74115)

IHC image of Polycystin 1/PC1 staining in a formalin fixed, paraffin embedded normal human kidney tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab74115, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

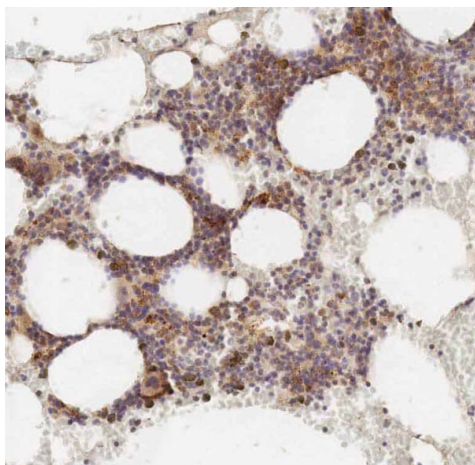
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1/PC1 antibody [7e12] (ab74115)

IHC image of Polycystin 1/PC1 staining in Human Normal Liver FFPE section, performed on a Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab74115, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1/PC1 antibody [7e12] (ab74115)

IHC image of Polycystin 1/PC1 staining in Normal Human Bone Marrow formalin fixed paraffin embedded tissue section*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab74115, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*

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