abcam

Product datasheet

Anti-Polycystin 1/PC1 antibody [7e12] - BSA and Azide free ab238662

4 Images

Overview

Product name	Anti-Polycystin 1/PC1 antibody [7e12] - BSA and Azide free
Description	Mouse monoclonal [7e12] to Polycystin 1/PC1 - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** IHC-P, Flow Cyt, ICC/IF **Unsuitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Dog, Human
Immunogen	Synthetic peptide corresponding to Human Polycystin 1/PC1 (N terminal).
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. Flow Cyt: HEK293 cells.
General notes	ab238662 is a PBS only version of ab74115. This antibody clone is manufactured by Abcam. If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	IgG fraction
Clonality	Monoclonal
Clone number	7e12
Myeloma	NS1
Isotype	IgG1
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab238662** 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.
Flow Cyt		Use 1-2µg for 10^6 cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 5 µg/ml.

Application notes Is unsuitable for 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.

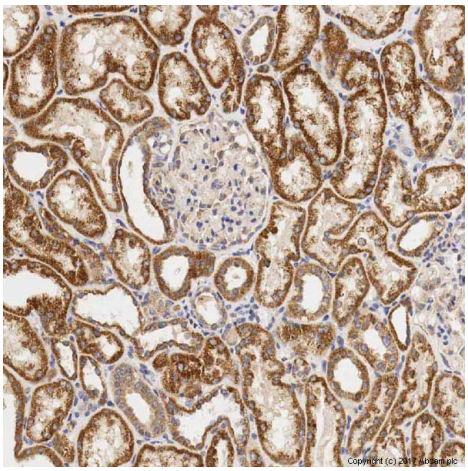
Involvement in disease Defects in PKD1 are the cause of polycystic kidney disease autosomal dominant type 1 (ADPKD1) [MIM:173900]. ADPKD is characterized by progressive formation and enlargement of cysts in both kidneys, typically leading to end-stage renal disease in adult life. Cysts also occurs in the liver and other organs. Its prevalence is estimated at about 1/1000.

Sequence similarities 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



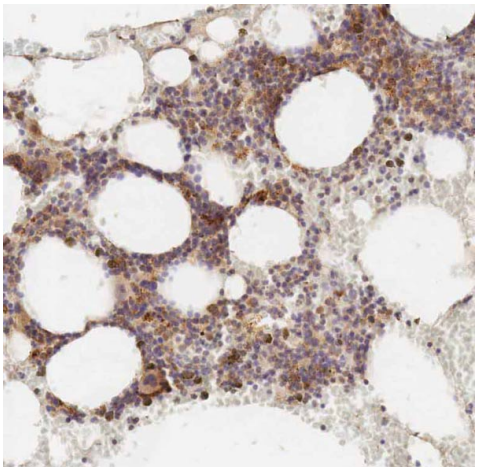
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1 antibody [7e12] - BSA and Azide free (ab238662)

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 hematoxylin 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.

This image was produced using the same clone but in a different formulation (PBS and sodium azide) ab74115.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1 antibody [7e12] - BSA and Azide free (ab238662)

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 hematoxylin 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.

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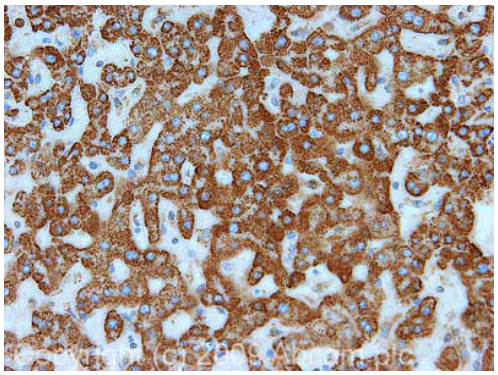
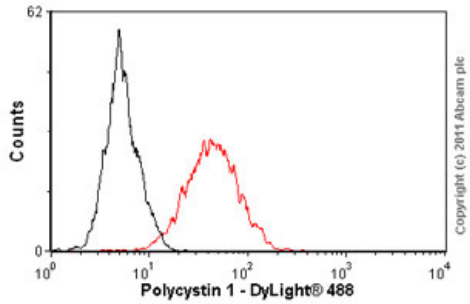


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Polycystin 1 antibody [7e12] - BSA and Azide free (ab238662)

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 hematoxylin and mounted with DPX.

This image was produced using the same clone but in a different formulation (PBS and sodium azide) ab74115.



Flow Cytometry - Anti-Polycystin 1 antibody [7e12] - BSA and Azide free (ab238662)

Overlay histogram showing HEK293 cells stained with ab74115 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab74115, 2µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in HEK293 cells fixed with 80% methanol (5 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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