

## Product datasheet

### Anti-NPHP1 antibody ab211422

[2 Images](#)

#### Overview

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<b>Product name</b>	Anti-NPHP1 antibody
<b>Description</b>	Rabbit polyclonal to NPHP1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human NPHP1 aa 1-150. Database link: <a href="#">O15259-1</a>
<b>Positive control</b>	IHC-P: Human tonsil and colon tissues.
<b>General notes</b>	<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&amp;As</p>

#### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine)
<b>Purity</b>	Caprylic Acid - Ammonium Sulfate precipitation
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab211422 in the following tested applications.

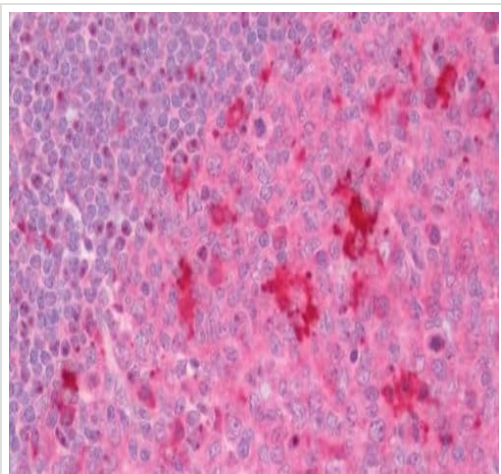
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml.

## Target

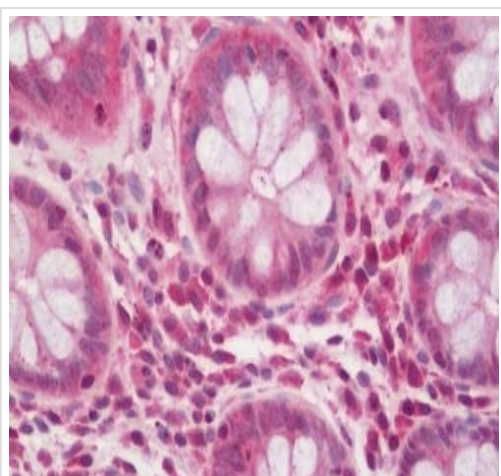
<b>Function</b>	Together with BCAR1 it may play a role in the control of epithelial cell polarity. Involved in the organization of apical junctions in kidney cells together with NPHP4 and RPGRIP1L/NPHP8 (By similarity). Does not seem to be strictly required for ciliogenesis (By similarity). Seems to help to recruit PTK2B/PYK2 to cell matrix adhesions, thereby initiating phosphorylation of PTK2B/PYK2 and PTK2B/PYK2-dependent signaling. May play a role in the regulation of intraflagellar transport (IFT) during cilia assembly. Required for normal retina development. In connecting photoreceptor cilia influences the movement of some IFT proteins such as IFT88 and WDR19. Involved in spermatogenesis.
<b>Tissue specificity</b>	Widespread expression, with highest levels in pituitary gland, spinal cord, thyroid gland, testis, skeletal muscle, lymph node and trachea. Weakly expressed in heart, kidney and pancreas. Expressed in nasal epithelial cells (at protein level).
<b>Involvement in disease</b>	Nephronophthisis 1 Senior-Loken syndrome 1 Joubert syndrome 4
<b>Sequence similarities</b>	Belongs to the nephrocystin-1 family. Contains 1 SH3 domain.
<b>Developmental stage</b>	During in vitro ciliogenesis translocalizes from the cytoplasm to the ciliary transition zone during epithelial cell polarization.
<b>Domain</b>	The SH3 domain mediates the stable interaction with Cas.
<b>Post-translational modifications</b>	Phosphorylation by CK2 is required for the interaction with PACS1 and the targeting to the base region of cilia.
<b>Cellular localization</b>	Cell junction, adherens junction. Cell projection, cilium. Cytoplasm, cytoskeleton, cilium axoneme. Cell junction, tight junction. Colocalizes with E-cadherin and BCAR1 at or near the cell-cell adherens junctions (By similarity). Localized to respiratory cilia axoneme. Localized to the transition zone of respiratory cilia, photoreceptor-connecting cilia and renal monocilia. In cultured renal cells, it localizes diffusely in the cytoplasm but, as cells approach confluence, it accumulates to basolateral tight junctions.

## Images



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human tonsil tissue labeling NPHP1 with ab211422 at 10 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NPHP1 antibody (ab211422)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human colon tissue labeling NPHP1 with ab211422 at 10 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NPHP1 antibody (ab211422)

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

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- Replacement or refund for products not performing as stated on the datasheet
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- 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

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