

# Nephrocystin 4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57435

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF, ICC
<b>Primary Accession</b>	<a href="#">O75161</a>
<b>Reactivity</b>	Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	157598

## Additional Information

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<b>Gene ID</b>	261734
<b>Other Names</b>	Nephrocystin-4, Nephroretinin, NPHP4, KIAA0673
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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<b>Name</b>	NPHP4
<b>Synonyms</b>	KIAA0673
<b>Function</b>	Involved in the organization of apical junctions; the function is proposed to implicate a NPHP1-4-8 module (PubMed: <a href="#">19755384</a> , PubMed: <a href="#">21565611</a> ). Does not seem to be strictly required for ciliogenesis (PubMed: <a href="#">21565611</a> ). Required for building functional cilia. Involved in the organization of the subapical actin network in multiciliated epithelial cells. Seems to recruit INT to basal bodies of motile cilia which subsequently interacts with actin-modifying proteins such as DAAM1 (By similarity). In cooperation with INVS may down- regulate the canonical Wnt pathway and promote the Wnt-PCP pathway by regulating expression and subcellular location of disheveled proteins. Stabilizes protein levels of JADE1 and promotes its translocation to the nucleus leading to cooperative inhibition of canonical Wnt signaling (PubMed: <a href="#">21498478</a> , PubMed: <a href="#">22654112</a> ). Acts as a negative regulator of the hippo pathway by association with LATS1 and modifying LATS1-dependent phosphorylation and localization of WWTR1/TAZ (PubMed: <a href="#">21555462</a> ).
<b>Cellular Location</b>	Cytoplasm, cytoskeleton, cilium basal body. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell junction, tight junction

{ECO:0000250|UniProtKB:P59240}. Nucleus Note=In cultured renal cells, it localizes diffusely in the cytoplasm but, as cells approach confluence, it accumulates to basolateral tight junctions (By similarity). Localizes to the ciliary transition zone (By similarity). In the retinal photoreceptor cell layer, localizes at the connecting cilium (By similarity).  
{ECO:0000250|UniProtKB:P59240}

**Tissue Location**

Expressed in kidney, skeletal muscle, heart and liver, and to a lesser extent in brain and lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.