

**NPHP3 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12751a****Specification**

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**NPHP3 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [Q7Z494](#)**NPHP3 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 27031**Other Names**

Nephrocystin-3, NPHP3, KIAA2000

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NPHP3 Antibody (N-term) Blocking peptide - Protein Information****Name** NPHP3**Synonyms** KIAA2000**Function**

Required for normal ciliary development and function. Inhibits disheveled-1-induced canonical Wnt-signaling activity and may also play a role in the control of non-canonical Wnt signaling which regulates planar cell polarity. Probably acts as a molecular switch between different Wnt signaling pathways. Required for proper convergent extension cell movements.

**Cellular Location**

Cell projection, cilium Note=Localization to cilium is mediated via interaction with UNC119 and UNC119B, which bind to the myristoyl moiety of the N-terminus

**Tissue Location**

Widely expressed at low level. Expressed in heart, placenta, liver, skeletal muscle, kidney and pancreas. Expressed at very low level in brain and lung.

**NPHP3 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **NPHP3 Antibody (N-term) Blocking peptide - Images**

#### **NPHP3 Antibody (N-term) Blocking peptide - Background**

This gene encodes a protein containing a coiled-coil (CC) domain, a tubulin-tyrosine ligase (TTL) domain, and a tetratricopeptide repeat (TPR) domain. The encoded protein interacts with nephrocystin and may function in renal tubular development and function. Mutations in this gene are associated with nephronophthisis type 3. Multiple splice variants have been described but their full-length nature has not been determined.

#### **NPHP3 Antibody (N-term) Blocking peptide - References**

Simpson, M.A., et al. Am. J. Kidney Dis. 53(5):790-795(2009) Tory, K., et al. Kidney Int. 75(8):839-847(2009) Bergmann, C., et al. Am. J. Hum. Genet. 82(4):959-970(2008) Hoefele, J., et al. J. Am. Soc. Nephrol. 18(10):2789-2795(2007) Leipe, D.D., et al. J. Mol. Biol. 343(1):1-28(2004)