10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IQCB1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP17066c

Specification

IQCB1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q15051

IQCB1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 9657

Other Names
IQ calmodulin-binding motif-containing protein 1, Nephrocystin-5, p53 and DNA damage-regulated IQ motif protein, PIQ, IQCB1, KIAA0036, NPHP5

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.

IQCB1 Antibody (Center) Blocking Peptide - Protein Information

Name IQCB1

Synonyms KIAA0036, NPHP5

Function
Involved in ciliogenesis. The function in an early step in cilia formation depends on its association with CEP290/NPHP6 (PubMed:21565611, PubMed:23446637). Involved in regulation of the BBSome complex integrity, specifically for presence of BBS2 and BBS5 in the complex, and in ciliary targeting of selected BBSome cargos. May play a role in controlling entry of the BBSome complex to cilia possibly implicating CEP290/NPHP6 (PubMed:25552655).

Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole. Note=Localization to the centrosome depends on the interaction with CEP290/NPHP6

Tissue Location

Ubiquitously expressed in fetal and adult tissues. Localized to the outer segments and connecting cilia of photoreceptor cells. Up-regulated in a number of primary colorectal and gastric tumors.

IQCB1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

IQCB1 Antibody (Center) Blocking Peptide - Images

IQCB1 Antibody (Center) Blocking Peptide - Background

This gene encodes a nephrocystin protein that interactswith calmodulin and the retinitis pigmentosa GTPase regulatorprotein. The encoded protein has a central coiled-coil region andtwo calmodulin-binding IQ domains. It is localized to the primarycilia of renal epithelial cells and connecting cilia ofphotoreceptor cells. The protein is thought to play a role inciliary function. Defects in this gene result in Senior-Lokensyndrome type 5. Alternative splicing results in multipletranscript variants.

IQCB1 Antibody (Center) Blocking Peptide - References

Hildebrandt, F., et al. J. Am. Soc. Nephrol. 20(1):23-35(2009)Schafer, T., et al. Hum. Mol. Genet. 17(23):3655-3662(2008)Luo, X., et al. Cancer Res. 65(23):10725-10733(2005)le Maire, A., et al. Proteins 59(2):347-355(2005)Mollet, G., et al. Hum. Mol. Genet. 14(5):645-656(2005)