

IQCB1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17066C

Specification

IQCB1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q15051
Other Accession	NP_001018865.2 , NP_001018864.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	68929
Antigen Region	384-411

IQCB1 Antibody (Center) - 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

Target/Specificity

This IQCB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 384-411 amino acids from the Central region of human IQCB1.

Dilution

WB~~1:1000

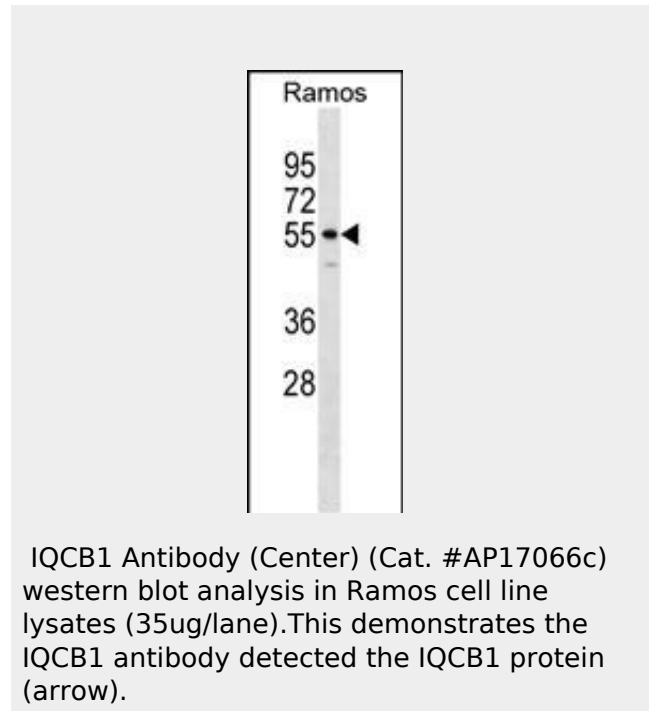
Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



IQCB1 Antibody (Center) - Background

This gene encodes a nephrocystin protein that interacts with calmodulin and the retinitis pigmentosa GTPase regulator protein. The encoded protein has a central coiled-coil region and two calmodulin-binding IQ domains. It is localized to the primary cilia of renal epithelial cells and connecting cilia of photoreceptor cells. The protein is thought to play a role in ciliary function. Defects in this gene result in Senior-Loken syndrome type 5. Alternative splicing results in multiple transcript variants.

IQCB1 Antibody (Center) - References

Hildebrandt, F., et al. J. Am. Soc. Nephrol. 20(1):23-35(2009)
Schafer, T., et al. Hum. Mol. Genet.

IQCB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

IQCB1 Antibody (Center) - 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.

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)

IQCB1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)