

Rabbit anti-Human IQCB1 Polyclonal Antibody | anti-IQCB1 antibody

IQCB1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324799	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

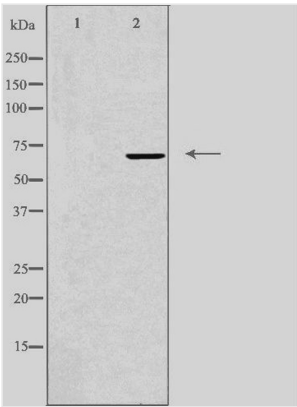
PRODUCT SYNONYMS

IQCB1; Polyclonal Antibody; IQCB1 Antibody; IQ calmodulin-binding motif containing 1; IQ calmodulin-binding motif-containing protein 1; IQ motif containing B1; Iqcb1; IQCB1_HUMAN; KIAA0036; Nephrocystin-5; NPHP5; p53 and DNA damage-regulated IQ motif protein; SLSN5; anti-IQCB1 antibody

PRODUCT SPECIFICATIONS

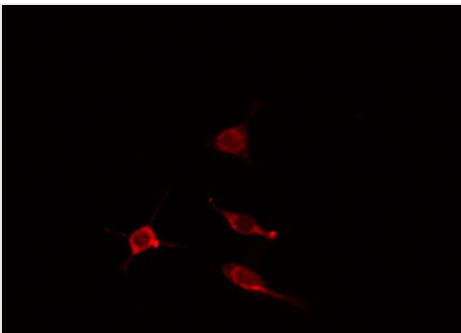
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	IQCB1 antibody detects endogenous levels of total IQCB1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	598
Applicable Applications for anti-IQCB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Photoreceptor connecting cilium
Tissue Specificity	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.
Predicted Cross Reactivity	Horse, Rabbit, Dog
Similarity	Horse (82%), Rabbit (91%), Dog (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from K562 cells, using IQCB1 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA324799 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-IQCB1 antibody	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). Subunit Structure: Interacts with CEP290/NPHP6; IQCB1/NPHP5 and CEP290 are proposed to form a functional NPHP5-6 module/NPHP6; localized to the centrosome. Interacts with calmodulin, ATXN10 (PubMed:16322217, PubMed:15723066, PubMed:18723859, PubMed:21565611, PubMed:23446637, PubMed:25552655). Interacts with NPHP1, INVS, NPHP4 and RPGRIP1L; these interactions likely require additional interactors (By similarity). Associates with the BBSome complex; interacts with BBS1, BBS2, BBS4, BBS5, BBS7, BBS8 and BBS9 (PubMed:25552655). Similarity: The IQ domains mediate the interaction with calmodulin.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	170014684
NCBI GeneID	9657
NCBI Accession #	NP_001018864.2
NCBI GenBank Nucleotide #	NM_001023570.3
UniProt Accession #	Q15051; Q3KS08; Q3KS09; Q5DKQ7; Q8NI79; Q9BS08
Molecular Weight	Observed: 69 kD Predicted: 69 kDa
NCBI Official Full Name	IQ calmodulin-binding motif-containing protein 1 isoform a
NCBI Official Synonym Full Names	IQ motif containing B1
NCBI Official Symbol	IQCB1
NCBI Official Synonym Symbols	PIQ; NPHP5; SLSN5
NCBI Protein Information	IQ calmodulin-binding motif-containing protein 1
UniProt Protein Name	IQ calmodulin-binding motif-containing protein 1
UniProt Gene Name	IQCB1
UniProt Synonym Gene Names	KIAA0036; NPHP5; PIQ

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/iqcb1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324799>