

Anti-Nephrocystin 5 Antibody

Catalog # AP59782

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q15051
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68929

Additional Information

Gene ID	9657
Other Names	KIAA0036; NPHP5; IQ calmodulin-binding motif-containing protein 1; Nephrocystin-5; p53 and DNA damage-regulated IQ motif protein; PIQ
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Nephrocystin 5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

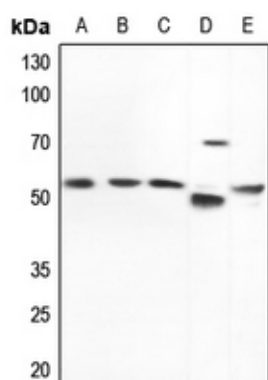
Protein Information

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

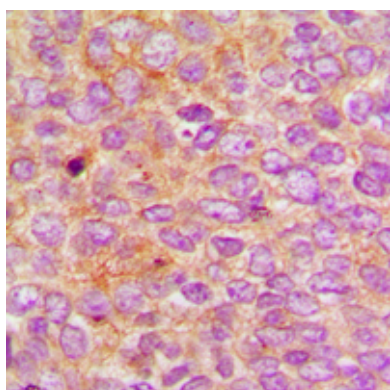
Tissue Location

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.

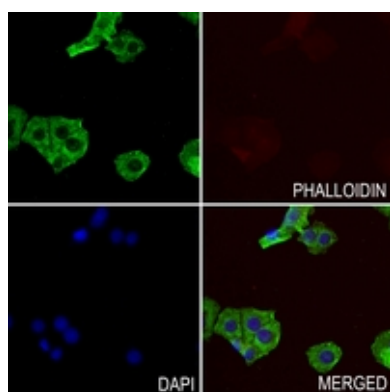
Images



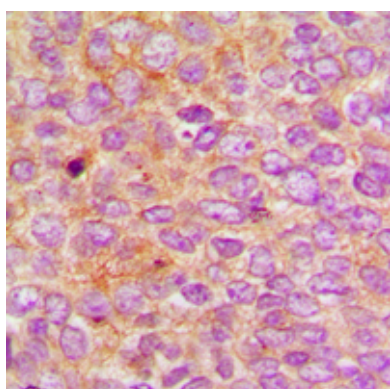
Western blot analysis of Nephrocystin 5 expression in HEK293T (A), Hela (B), HGC27 (C), mouse testis (D), rat lung (E) whole cell lysates. (Predicted band size: 68; 53; 34 kD; Observed band size: 68; 53 kD)



Immunohistochemical analysis of Nephrocystin 5 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Nephrocystin 5 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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