Product Name: Nephrocystin-5 Rabbit Polyclonal Antibody
Catalog #: APRab14564

Summary

Production Name	Nephrocystin-5 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	IQCB1
Alternative Names	IQCB1; KIAA0036; NPHP5; OK/SW-cl.85; IQ calmodulin-binding motif-containing protein 1; Nephrocystin-5; p53 and DNA damage-regulated IQ motif protein; PIQ
Gene ID	9657.0
SwissProt ID	Q15051.The antiserum was produced against synthesized peptide derived from human IQCB1. AA range:431-480

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:40000..
Molecular Weight	69kD

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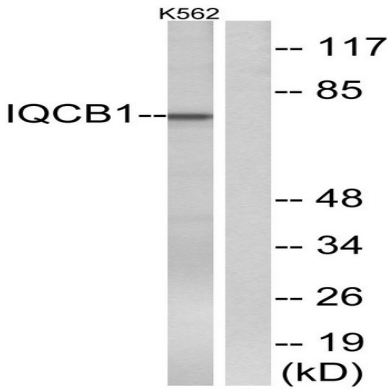
Background

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. A pseudogene of this gene is found on chromosome 6. [provided by RefSeq, Jan 2016],disease:Defects in IQCB1 are the cause of Senior-Loken syndrome type 5 (SLSN5) [MIM:609254]. SLSN is a renal-retinal disorder, characterized by progressive wasting of the filtering unit of the kidney (nephronophthisis), with or without medullary cystic renal disease, and progressive eye disease. Typically this disorder becomes apparent during the first year of life.,similarity:Contains 4 IQ domains.,subunit:Interacts with calmodulin.,tissue specificity:Ubiquitously expressed in fetal and adult tissues. Localized to the outer segments and connecting cilia of photoreceptor cells.,

Research Area

Image Data



Western blot analysis of lysates from K562 cells, using IQCB1 Antibody. The lane on the right is blocked with the synthesized peptide.

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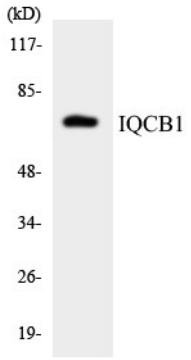
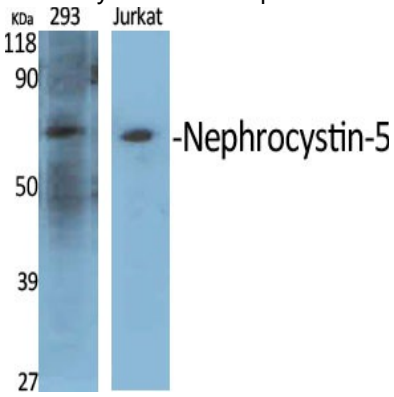
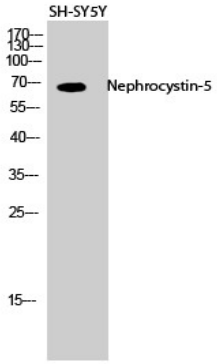


Western blot analysis of the lysates from HepG2 cells using IQCB1 antibody.



Western Blot analysis of various cells using Nephrocystin-5 Polyclonal Antibody diluted at 1：500



Western Blot analysis of SH-SY5Y cells using Nephrocystin-5 Polyclonal Antibody diluted at 1：500

Note

For research use only.