



# Nephrocystin-5 rabbit pAb

Cat No.:ES2919

For research use only

## Overview

<b>Product Name</b>	Nephrocystin-5 rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human IQCB1. AA range:431-480
<b>Specificity</b>	Nephrocystin-5 Polyclonal Antibody detects endogenous levels of Nephrocystin-5 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	IQ calmodulin-binding motif-containing protein 1
<b>Gene Name</b>	IQCB1
<b>Cellular localization</b>	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Localization to the centrosome depends on the interaction with CEP290/NPHP6.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	69kD
<b>Human Gene ID</b>	9657
<b>Human Swiss-Prot Number</b>	Q15051
<b>Alternative Names</b>	IQCB1; KIAA0036; NPHP5; OK/SW-cl.85; IQ calmodulin-binding motif-containing protein 1; Nephrocystin-5; p53 and DNA damage-regulated IQ

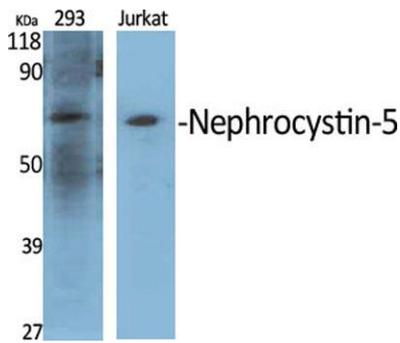




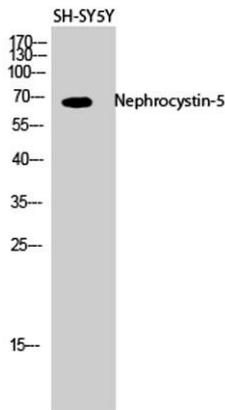
## Background

motif protein; PIQ

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],



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

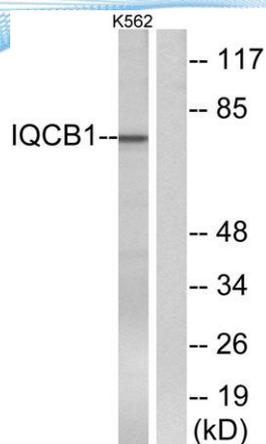


Western Blot analysis of SH-SY5Y cells using  
Nephrocystin-5 Polyclonal Antibody diluted at 1:500

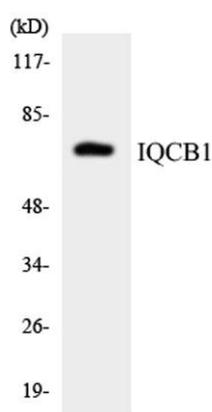




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Western blot analysis of lysates from K562 cells, using IQCB1 Antibody. The lane on the right is blocked with the synthesized peptide.



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



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