

# Recombinant Full Length Human IQCB1 Protein, GST-tagged

**Cat. No.** IQCB1-5700HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human IQCB1 full-length ORF ( NP_001018865.1, 1 a.a. - 465 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 465 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 80.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MKPTGTDPRIISIAAEVAKSPEQNVVPVILLKLKEIINITPLGSSELKKIKQDIYCYDLIQY<br>CLLVLSQDYSRIQGGWTTISQLTQILSHCCVGLPEGEDAEFYNNELLPSAAENFLVLG<br>RQLQTCFINAAKAEKDELLHFFQIVTDSLFWLLGGHVELIQNVLQSDHFLHLLQADN<br>VQIGSAVMMMLQNILQINRSKRSKMLLEINRQKEEEDLKLQLQLQRQRAMRLSRELQ<br>LSMLEIVHPGQVEKHYREMEEEKSALIIQKHWRGYRERKNFHQQRQSLIEYKAAVTLQ<br>RAALKFLAKYRKKKKLFAPWRGLQELTDARRVELKKRVDDYVRRHLGSPMSDVVSR                                                                                                                                                                                                                                |

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ELHAQAQERLQHYFMGRALEERAQQHREALIAQISTNVEQLMKAPSLKEAEGKEPE  
LFLSRSRPVAAKAKQAHLTTLKHIQAPWWKKLGEESEGDEIDVPKDELSIELENLFIGG  
TKPP

**Applications**

Enzyme-linked Immunoabsorbent Assay  
Western Blot (Recombinant protein)  
Antibody Production  
Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[IQCB1 IQ motif containing B1 \[ Homo sapiens \]](#)

**Official Symbol**

[IQCB1](#)

**Synonyms**

IQCB1; IQ motif containing B1; IQ calmodulin binding motif containing 1; IQ calmodulin-binding motif-containing protein 1; KIAA0036; nephrocystin 5; NPHP5; IQ calmodulin-binding motif containing 1; p53 and DNA damage-regulated IQ motif protein; PIQ; SLSN5;

**Gene ID**

[9657](#)

**mRNA Refseq**

[NM\\_001023570](#)

**Protein Refseq**

[NP\\_001018864](#)

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| MIM | 609237 |
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| UniProt ID | Q15051 |
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