

## Recombinant Human PKD2

**Cat. No.** PKD2-30689TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant fragment of Human Polycystin 2 with N terminal proprietary tag; predicted MWt: 36.63 kDa including the tag.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>             | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>      | 100 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>        | This gene encodes a member of the polycystin protein family. The encoded protein is a multi-pass membrane protein that functions as a calcium permeable cation channel, and is involved in calcium transport and calcium signaling in renal epithelial cells. This protein interacts with polycystin 1, and they may be partners in a common signaling cascade involved in tubular morphogenesis. Mutations in this gene are associated with autosomal dominant polycystic kidney disease type 2. |
| <b>Molecular Weight</b>   | 36.630kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tissue specificity</b> | Strongly expressed in ovary, fetal and adult kidney, testis, and small intestine. Not detected in peripheral leukocytes.                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>             | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                                 |                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione                                                     |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                 |
| <b>Sequences of amino acids</b> | PVSKTEKTNFKTLSSMEDFWKFTEGSLLDGLYWKMQPSNQTEADNRSFIFYENLLL<br>GVPRIRQLRVRNGSCSIPQDLRDEIKECYDVYSVSSSEDRAFPGP |
| <b>Sequence Similarities</b>    | Belongs to the polycystin family.Contains 1 EF-hand domain.                                               |

## GENE INFORMATION

|                            |                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PKD2 polycystic kidney disease 2 (autosomal dominant) [ Homo sapiens ]                                                                                            |
| <b>Official Symbol</b>     | PKD2                                                                                                                                                              |
| <b>Synonyms</b>            | PKD2; polycystic kidney disease 2 (autosomal dominant); polycystin-2; Pc 2; PC2; PKD4; transient receptor potential cation channel; subfamily P; member 2; TRPP2; |
| <b>Gene ID</b>             | 5311                                                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_000297                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_000288                                                                                                                                                         |
| <b>MIM</b>                 | 173910                                                                                                                                                            |
| <b>Uniprot ID</b>          | Q13563                                                                                                                                                            |
| <b>Chromosome Location</b> | 4q22.1                                                                                                                                                            |

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**Function**

ATPase binding; calcium ion binding; channel activity; cytoskeletal protein binding;  
ion channel activity;

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