Recombinant Human PKD2

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

SPECIFICATION

Product Overview	Recombinant fragment of Human Polycystin 2 with N terminal proprietary tag; predicted MWt: 36.63 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Strongly expressed in ovary, fetal and adult kidney, testis, and small intestine. Not detected in peripheral leukocytes.
Form	Liquid
Purity	Proprietary Purification

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

GENE INFORMATION

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

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

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