

Recombinant Human PDZK1

Cat. No. PDZK1-30832TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PDZK1 with N terminal proprietary tag; Predicted MWt 83.2 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	519 amino acids
Description	This gene encodes a PDZ domain-containing scaffolding protein. PDZ domain-containing molecules bind to and mediate the subcellular localization of target proteins. The encoded protein mediates the localization of cell surface proteins and plays a critical role in cholesterol metabolism by regulating the HDL receptor, scavenger receptor class B type 1. Single nucleotide polymorphisms in this gene may be associated with metabolic syndrome, and overexpression of this gene may play a role in drug resistance of multiple myeloma. Pseudogenes of this gene are located on the long arm of chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Molecular Weight	83.200kDa inclusive of tags
Tissue specificity	Expression is limited to epithelial cells. Expressed in the kidney (brush border of proximal tubule), pancreas, liver, and small intestine. Expressed at a lower level in the adrenal cortex, testis and stomach. Overexpressed in breast, renal and lung carci

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MTSTFNPRECKLSKQEGQNYGFFLRIEKDTEGHLVRVVEK CSPAEKAGLQDGDRV LRINGVFVDKEEHMQVVDLVRKSGN SVTLLVLDGDSYEKAVKTRVDLKELGQSQKE QGLSDNILS PVMNGGVQTTWTQPRLCYLVKEGGSYGFSKTVQGKKGVM TDITPQ GVAMRAGVLADDHLIEVNGENVEDASHEEVVEKV KKSGSRVMFLLVDKETDKRHV EQKIQFKRETASLKLLPHQ PRIVEMKKGSNGYGFYLRAGSEQKGQIIKDIDSGSPAE EA GLKNNDLVAVNGESVETLDHDSVVEMIRKGGDQTSLLVV DKETDNMYRLAHF SPFLYYQSQELPNGSVKEAPAPTPTSL EVSSPPDTTEEVDHKPKLCRLAKGENGYG FHLNAIRGLPG SFIKEVQKGGPADLAGLEDEDVIIEVNGVNVLDPEYKVV DRIQSS GKNVTLLVCGKKAYDYFQAKKIPIVSSLADPLDT PPDSKEGIVVESNHDSHMAKERA HSTASHSSSNSSEDTM
Sequence Similarities	Belongs to the NHER family.Contains 4 PDZ (DHR) domains.

GENE INFORMATION

Gene Name	PDZK1 PDZ domain containing 1 [Homo sapiens]
Official Symbol	PDZK1
Synonyms	PDZK1; PDZ domain containing 1; Na(+)/H(+) exchange regulatory cofactor NHERF3; NHERF3; PDZD1;

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Gene ID	5174
mRNA Refseq	NM_001201325
Protein Refseq	NP_001188254
MIM	603831
Uniprot ID	Q5T2W1
Chromosome Location	1q21
Function	PDZ domain binding; protein binding; scavenger receptor binding; transporter activity;

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