Recombinant Mouse Pdzk1 Protein, Myc/DDK-tagged

Cat. No. Pdzk1-4784M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length PDZ domain containing 1 (Pdzk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A scaffold protein that connects plasma membrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated membrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on SCARB1. Plays a role in the normal localization and function of the chloride-anion exchanger SLC26A6 to the plasma membrane in the brush border of the proximal tubule of the kidney. May be involved in the regulation of proximal tubular Na+-dependent inorganic phosphate cotransport therefore playing an important role in tubule function.
Molecular Mass	56.5 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Pdzk1 PDZ domain containing 1 [Mus musculus (house mouse)]
Official Symbol	Pdzk1
Synonyms	PDZK1; PDZ domain containing 1; Na(+)/H(+) exchange regulatory cofactor NHE-RF3; NHERF-3; naPi-Cap1; PDZ domain-containing protein 1; CFTR-associated protein of 70 kDa; Na(+)/H(+) exchanger regulatory factor 3; sodium-hydrogen exchanger regulatory factor 3; na/Pi cotransporter C-terminal-associated protein 1; Pdzd1; mPDZK1; AI267131; AI314638; AL022680; D3Ertd537e; 1700023D20Rik; 2610507N21Rik; 4921513F16Rik
Gene ID	59020
mRNA Refseq	NM_021517
Protein Refseq	NP_067492
UniProt ID	Q9JIL4

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