

Recombinant Human PDZ domain containing 1, His-tagged

Cat. No. PDZK1-560H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | PDZK1, 1-519aa, Human His tag, E.coli |
| Species | Human |
| Source | E.coli |
| ProteinLength | 1-519 a.a. |
| Description | <p>PDZK1 is a PDZ domain-containing scaffolding protein. This 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. Recombinant human PDZK1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.</p> |
| Form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT. |
| Molecular Mass | 59 kDa (542aa) |
| AA Sequence | <p>MGSSHHHHHH SGLVPRGSH MGSMTSTFNP RECKLSKQEG QNYGFFLRIE KDTEGHLVRV VEKCSPEAKA GLQDGDRVLR INGVFVDKEE HMQVVDLVRK SGNSVTLLVL DGDSYEKAVK TRVDLKELGQ SQKEQGLSDN ILSPVMNGGV QTWTQPRLCY LVKEGGSYGF SLKTVQGKKG VYMTDITPQG VAMRAGVLAD</p> |

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DHLIEVNGEN VEDASHEEVV EKVKKSGSRV MFLLVDKETD KRHVEQKIQF
 KRETASLKLL PHQPRIVEMK KGSNGYGFYL RAGSEQKGQI IKDIDSGSPA
 EEAGLKNNDL VVAVNGESVE TLDHDSVVEM IRKGGDQTSI LVVDKETDNM
 YRLAHFSPFL YYQSQELPNG SVKEAPPTP TSLEVSSPPD TTEEVDHKPK
 LCRLAKGENG YGFHLNAIRG LPGSFIKEVQ KGGPADLAGL EDEDVIEVN
 GVNVLDEPYE KVVDRIQSSG KNVTLVCGK KAYDYFQAKK IPIVSSLADP
 LDTPPDSKEG IVVESNHDSH MAKERAHSTA SHSSSNS EDT EM

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

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; naPi-Cap1; PDZ-containing kidney protein 1; CFTR-associated protein of 70 kDa; sodium-hydrogen exchanger regulatory factor 3; na/Pi cotransporter C-terminal-associated protein 1; CAP70; CLAMP; NHERF-3;

Gene ID 5174

mRNA Refseq NM_001201325

Protein Refseq NP_001188254

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|----------------------------|--|
| MIM | 603831 |
| UniProt ID | Q5T2W1 |
| Chromosome Location | 1q21 |
| Function | PDZ domain binding; protein binding; scavenger receptor binding; transporter activity; |

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