

Datasheet for ABIN7565090
PDZK1 Protein (AA 1-519) (His tag)



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Overview

Quantity:	1 mg
Target:	PDZK1
Protein Characteristics:	AA 1-519
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDZK1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Pdzk1 Protein expressed in mammalian cells.
Sequence:	<p>MASTFNPREC KLSKQEGQNY GFFLRIEKDT DGHILRVIEE GSPA EKAGLL DGDRVLRING</p> <p>VFVDKEEHAQ VVELVRKSGN SVTLLVLDGD SYEKAVKNQV DLKELDQSQE EAALNDKKPG</p> <p>PGMNGAVEPC AQPRLCYLVK EGNSFGFSLK TIQKKG VYL TDIMPQGVAM KAGVLADDHL</p> <p>IEVNGENVEN ASHEEVVEKV TKSGSRIMFL LVDKETARCH SEQKTQFKRE TASLKLLPHQ</p> <p>PRVVVIKKGS NGYGFYLRAG PEQKGQIIKD IEPGSPA EAA GLKNNDLVVA VNGKSVEALD</p> <p>HDGVVEMIRK GGDQTLLVL DKEAESIYSL ARFSPLLYCQ SQELPNGSVK EGPAPIPAPL</p> <p>EATGSEPTED AEGHKPKLCR LLKEDDSYGF HLNAIRGQPG SFVKEVQQGG PADKAGLENE</p> <p>DVIIEVNGEN VQEEPYDRVV ERIKSSGKHV TLLVCGKMAY SYFQAKKIPI VSSMAEPLVA</p> <p>GPDEKGETSA ESEHDAHPAK DRTLSTASHS SSNSDTEM Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special</p>

request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

PDZK1

Alternative Name:

Pdzk1 ([PDZK1 Products](#))

Background:

Na(+)/H(+) exchange regulatory cofactor NHE-RF3 (NHERF-3) (CFTR-associated protein of 70 kDa) (Na(+)/H(+) exchanger regulatory factor 3) (Na/Pi cotransporter C-terminal-associated protein 1) (NaPi-Cap1) (PDZ domain-containing protein 1) (Sodium-hydrogen exchanger regulatory factor 3),FUNCTION: 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 NHERF1, 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 (By similarity). Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on

Target Details

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. {ECO:0000250, ECO:0000269|PubMed:11051556, ECO:0000269|PubMed:12556478, ECO:0000269|PubMed:14531806, ECO:0000269|PubMed:15523054, ECO:0000269|PubMed:16141316, ECO:0000269|PubMed:20739281, ECO:0000269|PubMed:21602281}.

Molecular Weight: 56.5 kDa

UniProt: [Q9JIL4](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months