



Rabbit Anti-PDZD3 antibody

SL12607R

Product Name:	PDZD3
Chinese Name:	PDZ结构域PDZK3蛋白抗体
Alias:	IKEPP; Intestinal and kidney enriched PDZ protein; Intestinal and kidney-enriched PDZ protein; Na(+)/H(+) exchange regulatory cofactor NHE-RF4; Na/Pi cotransporter C terminal associated protein 2; Na/Pi cotransporter C-terminal-associated protein 2; NaPi-Cap2; Natrium-phosphate cotransporter Iia C-terminal-associated protein 2; NHERF-4; NHERF4; NHRF4_HUMAN; PDZ domain containing 2; PDZ domain containing 3; PDZ domain containing protein 2; PDZ domain-containing protein 2; PDZ domain-containing protein 3; PDZD 3; Pdzd3; PDZK2; Protein DLNB27; Sodium-hydrogen exchanger regulatory factor 4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PDZD3:101-200/571
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Guanylyl cyclase C (GCC, or GUCY2C; MIM 601330) produces cGMP following the binding of either endogenous ligands or heat-stable enterotoxins secreted by E. coli and other enteric bacteria. Activation of GCC initiates a signaling cascade that leads to phosphorylation of the cystic fibrosis transmembrane conductance regulator (CFTR; MIM 602421), followed by a net efflux of ions and water into the intestinal lumen. IKEPP is a regulatory protein that associates with GCC and regulates the amount of cGMP produced following receptor stimulation (Scott et al., 2002 [PubMed 11950846]).[supplied by OMIM, Mar 2008]

Function:

Acts as a regulatory protein that associates with GUCY2C and negatively modulates its heat-stable enterotoxin-mediated activation. Stimulates SLC9A3 activity in the presence of elevated calcium ions.

Subcellular Location:

Cell membrane. Cytoplasm. Preferentially accumulates at the apical surface and ileal brush border of intestinal epithelial cells.

Tissue Specificity:

Expressed in kidney and the gastrointestinal tract. Not detected in brain, heart, skeletal muscle or cells of hematopoietic origin.

Similarity:

Contains 4 PDZ (DHR) domains.

SWISS:

Q86UT5

Gene ID:

607146

Database links:

[Entrez Gene: 79849](#) Human

[Entrez Gene: 170761](#) Mouse

[Entrez Gene: 500986](#) Rat

[Omim: 607146](#) Human

[SwissProt: Q86UT5](#) Human

[SwissProt: Q99MJ6](#) Mouse

[Unigene: 374726](#) Human

Product Detail:

[Unigene: 29872](#) Mouse

[Unigene: 54119](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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