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PDZD3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17639c

Specification

PDZD3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q86UT5
Other Accession	NP_001161940.1, NP_079067.3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**61032**
Antigen Region	**258-285**

PDZD3 Antibody (Center) - Additional Information

Gene ID 79849

Other Names
Na(+)/H(+) exchange regulatory cofactor NHE-RF4, NHERF-4, Intestinal and kidney-enriched PDZ protein, Natrium-phosphate cotransporter IIa C-terminal-associated protein 2, Na/Pi cotransporter C-terminal-associated protein 2, NaPi-Cap2, PDZ domain-containing protein 2, PDZ domain-containing protein 3, Sodium-hydrogen exchanger regulatory factor 4, PDZD3, IKEPP, NHERF4, PDZK2

Target/Specificity
This PDZD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-285 amino acids from the Central region of human PDZD3.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PDZD3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PDZD3 Antibody (Center) - Protein Information

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Name NHERF4

Synonyms IKEPP, PDZD3, PDZK2

Function Acts as a regulatory protein that associates with GUCY2C and negatively modulates its heat-stable enterotoxin-mediated activation (PubMed:11950846). Stimulates SLC9A3 activity in the presence of elevated calcium ions (PubMed:19088451).

Cellular Location
Cell membrane; Peripheral membrane protein. Cytoplasm Note=Preferentially accumulates at the apical surface and ileal brush border of intestinal epithelial cells (PubMed:11950846, PubMed:19088451).

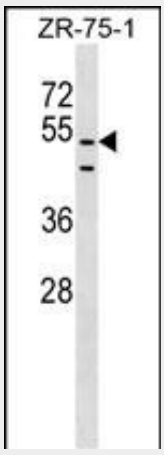
Tissue Location
Expressed in kidney and the gastrointestinal tract. Not detected in brain, heart, skeletal muscle or cells of hematopoietic origin.

PDZD3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PDZD3 Antibody (Center) - Images



PDZD3 Antibody (Center) (Cat. #AP17639c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the PDZD3 antibody detected the PDZD3 protein (arrow).

PDZD3 Antibody (Center) - Background

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]).

PDZD3 Antibody (Center) - References

Zachos, N.C., et al. Cell. Physiol. Biochem. 22 (5-6), 693-704 (2008) :
Kato, Y., et al. Mol. Pharmacol. 67(3):734-743(2005)
Hegedus, T., et al. Biochem. Biophys. Res. Commun. 302(3):454-461(2003)
Scott, R.O., et al. J. Biol. Chem. 277(25):22934-22941(2002)