

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 Ila 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

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

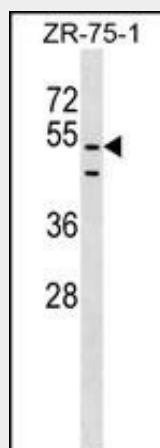
Expressed in kidney and the gastrointestinal tract. Not detected in brain, heart, skeletal muscle or cells of hematopoietic origin.

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 Cytometry](#)
- [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)