

Datasheet for 600-401-BH5**FRMPD2 Antibody****Overview**

Description:	Anti-FRMPD2 (RABBIT) Antibody - 600-401-BH5
Item No.:	600-401-BH5
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The FERM and PDZ domain containing (FRMPD) protein family consists of four proteins that contain a FERM (Four-point-one, erzin, radixin, moesin) domain and at least one PDZ (PSD-95/Discs large/Zonula-occludens-1) domain. FRMPD2 also contains an N-terminal KIND domain and three PDZ domains and is structurally similar to the protein tyrosine phosphatase PTP-BL. FRMPD2 is localized in a polarized fashion in epithelial cells at the basolateral membrane and partially co-localizes with the tight-junction marker protein Zonula-occludens-1. Suppression of FRMPD2 expression via RNAi in Caco-2 cells results in an impairment of tight junction formation, indicating that FRMPD2 plays a major role in tight junction formation. Other experiments indicate that FRMPD2 is a binding partner to several catenin family members and recruitment of FRMPD2 to cell-cell contacts is dependent on E-cadherin-mediated cell-cell adhesion.
Synonyms:	FRMPD2 Antibody, PDZK4, PDZD5C, PDZK5C, PDZK4, FERM and PDZ domain-containing protein 2, PDZ domain-containing protein 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	FRMPD2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-FRMPD2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the N-terminus of human FRMPD2.
Purity/Specificity:	Anti-FRMPD2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with FRMPD2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q68DX3 • GeneID - 143162 • NCBI - NP_001018081

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-FRMPD2 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 144 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

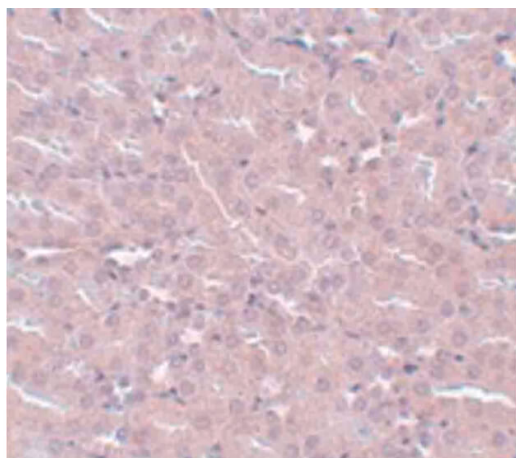
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

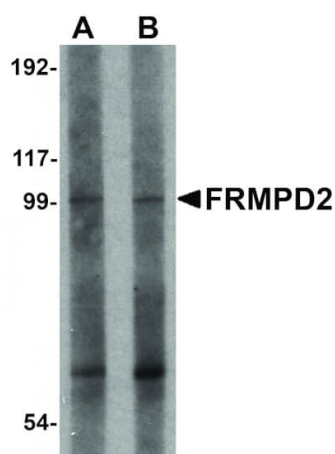
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of FRMPD2 antibody. Tissue: Mouse kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: FRMPD2 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: FRMPD2 is cytoplasmic. Staining: FRMPD2 as precipitated pink signal with purple nuclear counterstain.



Western Blot

Western Blot of FRMPD2 antibody. Lane 1: Rat kidney tissue lysate with FRMPD2 antibody at 1 µg/mL. Lane 2: Rat kidney tissue lysate with FRMPD2 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 144 kDa, 100 kDa for FRMPD2. Other band(s): FRMPD2 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.