

Datasheet for 600-401-DK0

PCDH12 Antibody

Overview

Description:	Anti-PCDH12 (RABBIT) Antibody - 600-401-DK0
Item No.:	600-401-DK0
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Protocadherins comprise the largest group within the cadherin family of calcium-dependent cell-cell adhesion molecules. Protocadherin 12 (PCDH12) was initially identified through PCR screening of mouse heart microvascular endothelial cell RNA; further experiments revealed its mRNA to be strongly expressed in highly vascularized organs such as lung and kidney, in addition to glycogen-rich trophoblasts in the placenta. PCDH12-null mice are viable and fertile, but show reduced placental and embryonic sizes when compared to wild-type mice. Further studies showed significant expression changes in 2, 289 genes, including those involved in tissue morphogenesis, angiogenesis, cell-matrix adhesion and migration, immune response and chromatin remodeling.
Synonyms:	PCDH12 Antibody, VECAD2, VE-cadherin-2, Protocadherin-12, Vascular cadherin-2, VE-cad-2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PCDH12
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-PCDH12 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human PCDH12.

Purity/Specificity: Anti-PCDH12 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is predicted to not cross-react with PCDH18.

Relevant Links:

- [UniProtKB - Q9NPG4](#)
- [GeneID - 51294](#)
- [NCBI - NP_057664](#)

Application Details

Tested Applications: ELISA, IHC, WB

Application Note: Anti-PCDH12 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 129 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: 1:20,000

IHC: 5 µg/mL

WB: 2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 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

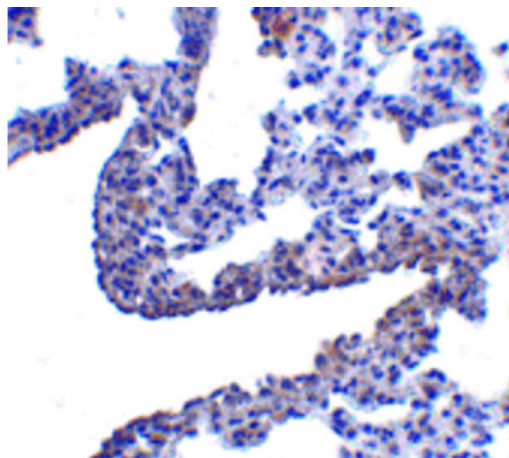
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

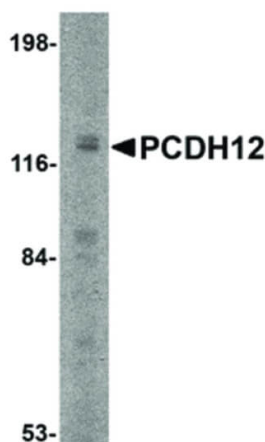
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of PCDH12 antibody. Tissue: rat lung tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: PCDH12 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: PCDH12 is a single pass membrane protein. Staining: PCDH12 as precipitated brown signal with blue counterstain.



Western Blot

Western Blot of PCDH12 antibody. Lane 1: K562 cell lysate with PCDH12 antibody at 2 µg/mL. Load: 35 µg per lane. 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: 129 kDa, 120 kDa for PCDH12. Other band(s): PCDH12 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.