

Datasheet for 600-401-DQ9**PLXDC2 Antibody****Overview**

Description:	Anti-PLXDC2 (RABBIT) Antibody - 600-401-DQ9
Item No.:	600-401-DQ9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Plxdc2, also known as Tumor endothelial marker 7-related (TEM7R) encodes a protein with 57% amino acid identity to TEM7, the most abundant tumor endothelial marker. Plxdc2 is strongly expressed in the endothelial cells of the tumor stroma, but not in the endothelial cells of normal colonic tissue. Plxdc2 is also expressed at high levels in vessels of some normal tissues, with highest expression in muscle and lung. Plxdc2 and TEM7 may be important for tumor angiogenesis in humans. Cortactin was identified as a protein capable of binding to the extracellular region of both TEM7 and Plxdc2, and may provide new opportunities for the delivery of therapeutic and imaging agents to the vessels of solid tumors.
Synonyms:	Plxdc2 Antibody, TEM7R, TEM7R, UNQ2514/PRO6003, Plexin domain-containing protein 2, Tumor endothelial marker 7-related protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PLXDC2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Plxdc2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the C-terminus of human Plxdc2.
Purity/Specificity:	Anti-Plxdc2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Plxdc2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q6UX71 • GeneID - 84898 • NCBI - Q6UX71

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-Plxdc2 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 59 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:	1:5,000 - 1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	.5-1 µg/mL

Formulation

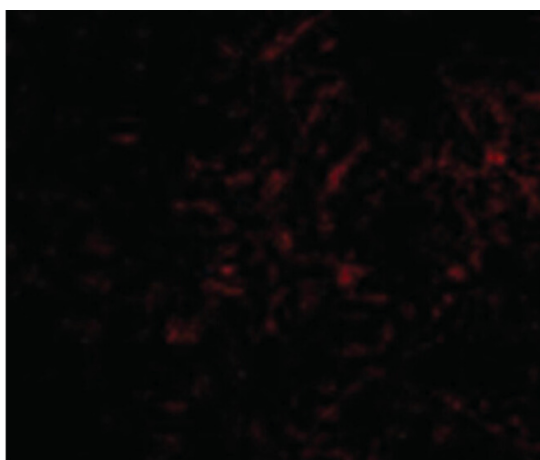
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------

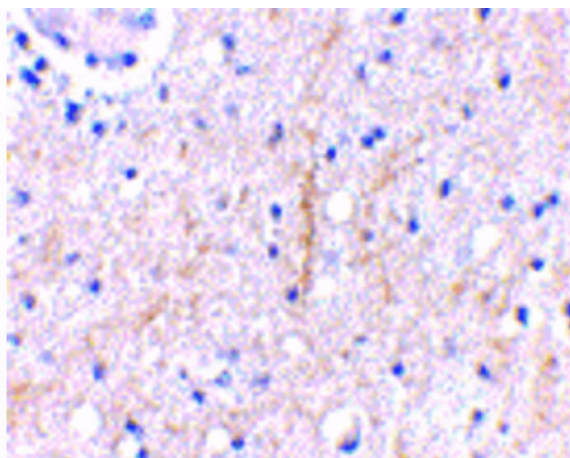
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



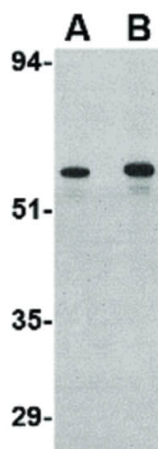
Immunofluorescence Microscopy

Immunofluorescence Microscopy Plxdc2 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Plxdc2 antibody at 50 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: Plxdc2 as a red fluorescent signal.



Immunohistochemistry

Immunohistochemistry of Plxdc2 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: Plxdc2 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Plxdc2 is nuclear and occasionally cytoplasmic. Staining: Plxdc2 as precipitated red signal with hematoxylin purple nuclear counterstain.

**Western Blot**

Western Blot of Plxdc2 antibody. Lane A: Human colon tissue lysate at 0.5 $\mu\text{g/mL}$. Lane B: Human colon tissue lysate at 1 $\mu\text{g/mL}$. 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: 59.5 kDa, ~57 kDa for Plxdc2.

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.