Datasheet for 600-401-AR6

CXXC4 Antibody

Overview

Description:	Anti-CXXC4 (RABBIT) Antibody - 600-401-AR6
Item No.:	600-401-AR6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	CXXC4 is zinc finger protein that binds directly to the PDZ domain of DVL1, a protein involved in the Wnt signaling pathway, through its C-terminal region. CXXC4's interaction with DVL1 competes with DVL1-AXIN binding, although the affinity of DVL1 for CXXC4 is lower than that for AXIN. In mouse fibroblasts, CXXC4 suppressed Wnt3a induction of beta-catenin and inhibited Wnt3a-dependent TCF4 activation, suggesting that CXXC4 acts as a negative regulator of the Wnt signaling pathway and functions between DVL and beta-catenin. Recent reports suggest that decreased CXXC4 expression is associated with kidney cancer metastasis, cell proliferation, reduced apoptosis in response to cancer drugs, and upregulation of genes involved with proliferation, invasion and cell survival, suggesting that CXXC4 plays a critical role in tumor progression in kidney cancer.
Synonyms:	CXXC4 Antibody, IDAX, IDAX, CXXC-type zinc finger protein 4, Inhibition of the Dvl and axin complex protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CXXC4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-CXXC4 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide near the N-terminus of human CXXC4.
Purity/Specificity:	Anti-CXXC4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with CXXC4 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9H2H0 • GeneID - 80319 • NCBI - NP_079488

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-CXXC4 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 21 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
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	1 µg/mL

Formulation

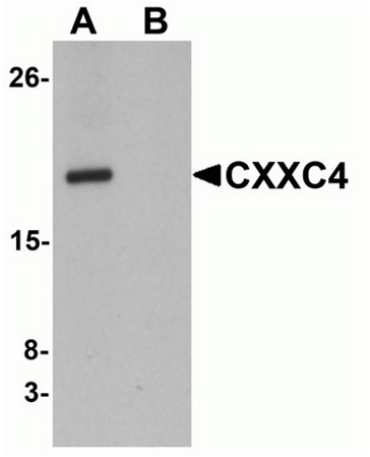
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

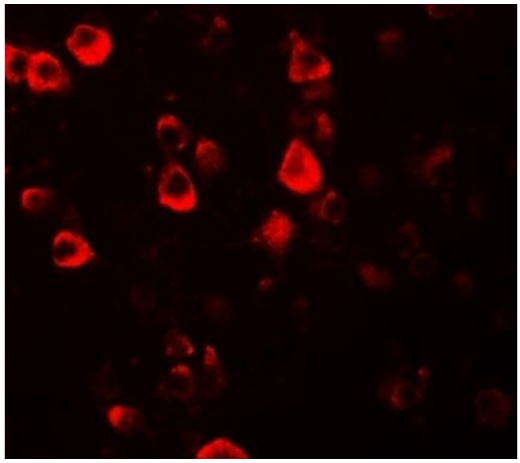
Shipping Condition:	Dry Ice

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.

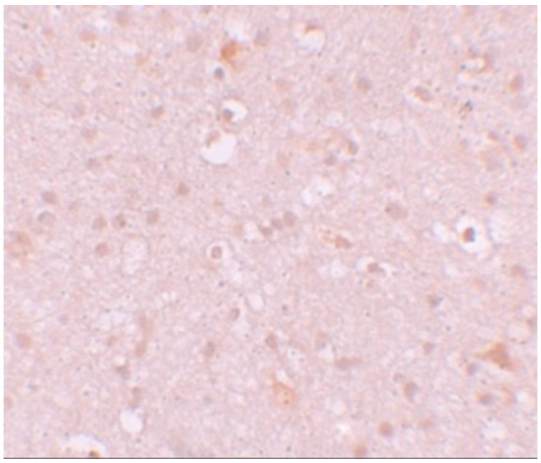
Images



Western Blot
Western blot analysis of CXXC4.
Load: human brain tissue lysate.
Primary Antibody: Anti-CXXC4 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence Microscopy
Immunofluorescence of CXXC4.
Tissue: human brain tissue.
Primary Antibody: Anti-CXXC4 antibody at 20 µg/mL.



Immunohistochemistry
Immunohistochemistry of CXXC4.
Tissue: human brain tissue,
Primary Antibody: Anti-CXXC4 antibody at 10 µg/mL.

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.