

**CXXC4 Antibody**  
**Catalog # ASC11230****Specification**

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**CXXC4 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q9H2H0</a>
Other Accession	<a href="#">NP_079488</a> , <a href="#">13376816</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	CXXC4 antibody can be used for detection of CXXC4 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 10 µg/mL. For immunofluorescence start at 20 µg/mL.

**CXXC4 Antibody - Additional Information**

Gene ID	80319
<b>Target/Specificity</b>	
CXXC4;	

**Reconstitution & Storage**

CXXC4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

CXXC4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**CXXC4 Antibody - Protein Information**

**Name** CXXC4

**Synonyms** IDAX

**Function**

Acts as a negative regulator of the Wnt signaling pathway via its interaction with DVL1 (By similarity). Binds preferentially to DNA containing cytidine-phosphate-guanosine (CpG) dinucleotides over CpH (H=A, T, and C), hemimethylated-CpG and hemimethylated-hydroxymethyl- CpG (PubMed:<a href="http://www.uniprot.org/citations/29276034" target="\_blank">29276034</a>).

**Cellular Location**

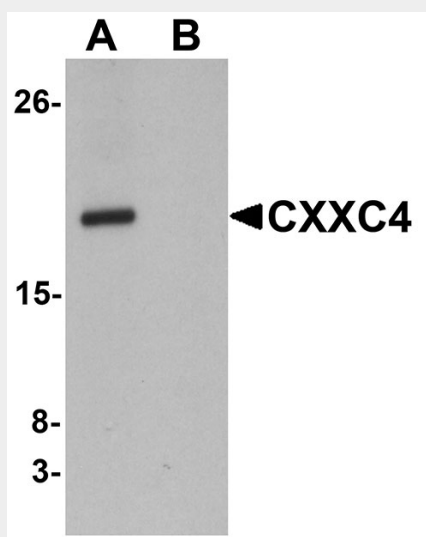
Cytoplasm {ECO:0000250|UniProtKB:Q9EQC9}.

## CXXC4 Antibody - Protocols

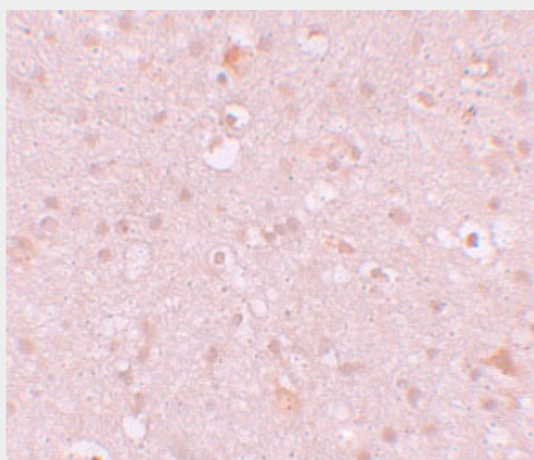
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

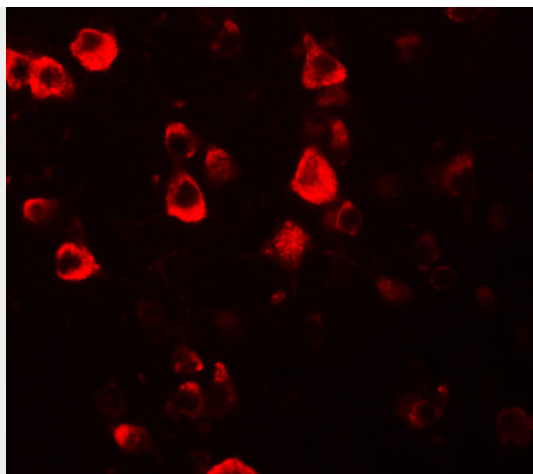
## CXXC4 Antibody - Images



Western blot analysis of CXXC4 in human brain tissue lysate with CXXC4 antibody at 1  $\mu$ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of CXXC4 in human brain tissue with CXXC4 antibody at 10  $\mu$ g/mL.



Immunofluorescence of CXXC4 in human brain tissue with CXXC4 antibody at 20 µg/mL.

#### **CXXC4 Antibody - Background**

CXXC4 Antibody: 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.

#### **CXXC4 Antibody - References**

Hino S, Kishida S, Michuie T, et al. Inhibition of the Wnt signaling pathway by Idax, a novel Dvl-binding protein. *Mol. Cell Biol.*2001; 21:330-42.

Kojima T, Shimazui T, Hinotsu S, et al. Decreased expression of CXXC4 promotes a malignant phenotype in renal cell carcinoma by activating Wnt signaling. *Oncogene*2009; 28:297-305.