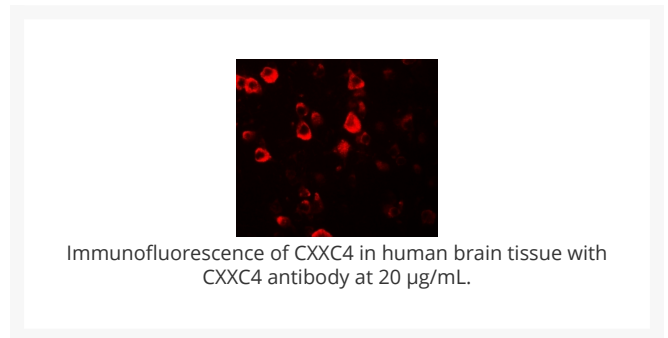
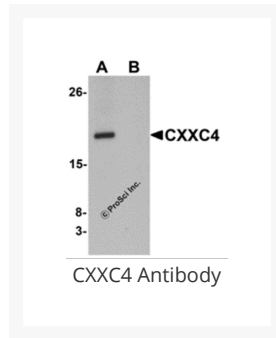




CXXC4 Antibody

Cat. No.: 6041



Ψ Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	CXXC4 antibody was raised against an 18 amino acid synthetic peptide near the amino terminus of human CXXC4. The immunogen is located within amino acids 50 - 100 of CXXC4.
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB

APPLICATIONS:	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. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1303 - Human Brain Tissue Lysate
	2) Cat. No. 10-301 - Human Brain Tissue Slide

Ψ Properties

PURIFICATION:	CXXC4 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	CXXC4 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	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.

Ψ Additional Info

OFFICIAL SYMBOL:	CXXC4
ALTERNATE NAMES:	CXXC4 Antibody: IDAX, IDAX, CXXC-type zinc finger protein 4, Inhibition of the Dvl and axin complex protein
ACCESSION NO.:	NP_079488
PROTEIN GI NO.:	13376816
GENE ID:	80319
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ Background and References

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.
REFERENCES:	1) 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.
	2) Kojima T, Shimazui T, Hinotsu S, et al. Decreased expression of CXXC4 promotes a malignant phenotype in renal cell carcinoma by activating Wnt signaling. Oncogene2009; 28:297-305.

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