BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CXXC4 Antibody

Catalog Number: A13072

About CXXC4

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.

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Overview

Product Name	Anti-CXXC4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CXXC4 Antibody (Catalog # A13072). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CXXC4 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	CXXC4 antibody can be stored at 4°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9H2H0

Technical Details

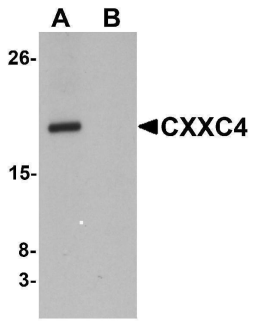
Immunogen	CXXC4 antibody was raised against an 18 amino acid synthetic peptide near the amino terminus of human CXXC4. The immunogen is located within amino acids 50 - 100 of CXXC4.
Predicted Reactive Species	Rat

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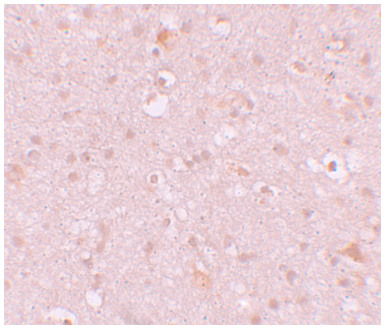
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CXXC4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CXXC4 antibody can be used for detection of CXXC4 by Western blot at 1 ug/mL. Antibody can also be used for immunohistochemistry starting at 10 ug/mL. For immunofluorescence start at 20 ug/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. Optimal dilutions for each application should be determined by the researcher.

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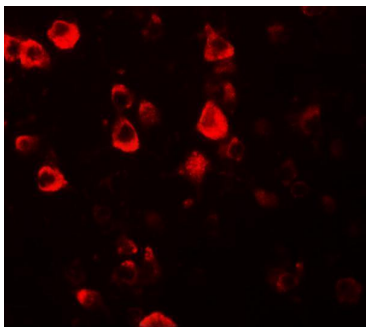
Anti-CXXC4 Antibody (A13072) Images



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



Immunohistochemistry of CXXC4 in human brain tissue with CXXC4 antibody at 10 ug/mL.



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

For Research Use Only. Not for use in diagnostic procedures.