

Anti-Tectonic-1 TCTN1 Antibody

Catalog Number: A09350

About TCTN1

TCTN1 is the founding member of the Tectonic protein family, a group of evolutionarily conserved secreted and transmembrane proteins that regulate the Hedgehog (Hh)-mediated patterning of the neural tube. During embryonic development, TCTN1 is expressed in regions that participate in Hh signaling, beginning in the gastrulation stages in the ventral node. Mice expressing mutant TCTN1 die between E13.5 and E16.5 and display holoprosencephaly, a defect associated with reduced Hh signaling, indicating the role of TCTN1 as an Hh activator. At later stages in development, TCTN1 is thought to also act as a repressor on the Hh pathway in the anterior and posterior neural tube.

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Overview

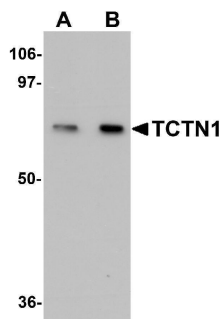
Product Name	Anti-Tectonic-1 TCTN1 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Tectonic-1 TCTN1 Antibody (Catalog # A09350). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	TCTN1 Antibody is supplied in PBS containing $\leq 0.09\%$ sodium azide.
Storage Instructions	TCTN1 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	Q2MV58

Technical Details

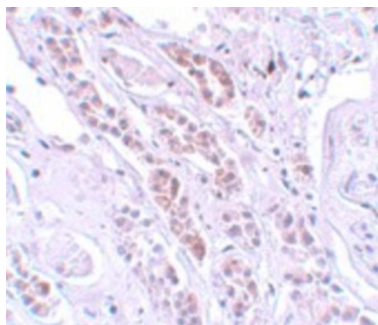
Immunogen	TCTN1 antibody was raised against a 15 amino acid synthetic peptide near the amino terminus of human TCTN1. The immunogen is located within amino acids 30 - 80 of TCTN1.
Predicted Reactive Species	Bovine
Isotype	IgG

Form	Liquid
Concentration	1 mg/mL
Purification	TCTN1 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	TCTN1 antibody can be used for detection of TCTN1 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse 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.

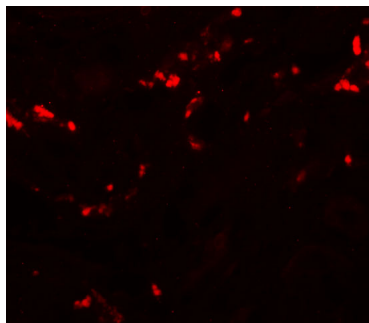
Anti-Tectonic-1 TCTN1 Antibody (A09350) Images



Western blot analysis of TCTN1 in mouse kidney tissue lysate with TCTN1 antibody at (A) 1 and (B) 2ug/mL.



Immunohistochemistry of TCTN1 in human kidney tissue with TCTN1 antibody at 5 ug/mL.



Immunofluorescence of TCTN1 in Human Kidney cells with TCTN1 antibody at 20 ug/mL.

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