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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-FB1

TCTN1 Antibody

Overview

Description:	Anti-TCTN1 (RABBIT) Antibody - 600-401-FB1
Item No.:	600-401-FB1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	TCTN1 Antibody, TECT1, JBTS13, TECT1, UNQ9369/PRO34160, Tectonic-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TCTN1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TCTN1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of human TCTN1.

Purity/Specificity:	Anti-TCTN1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TCTN1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q2MV58 • GeneID - 79600 • NCBI - NP_001076006.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TCTN1 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 64 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 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

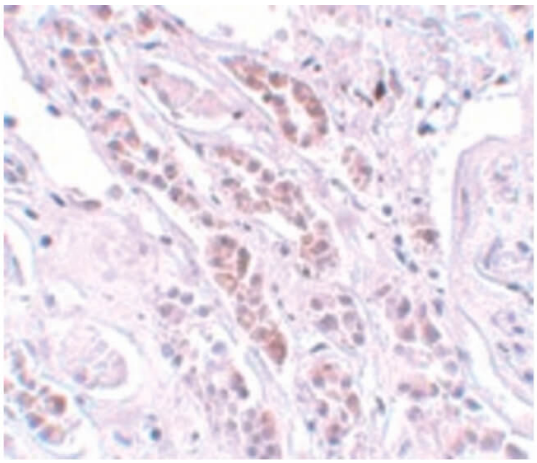
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

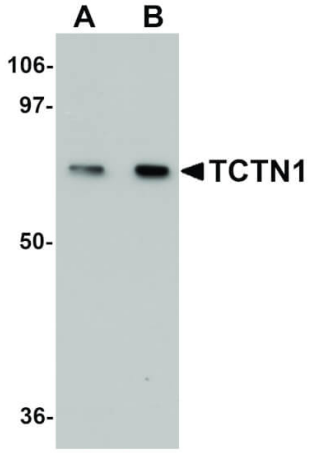
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

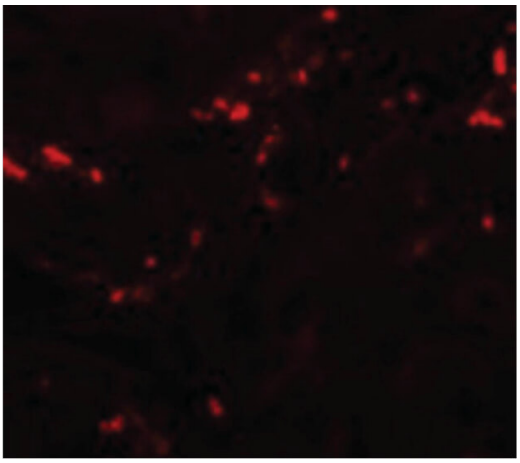
Images



Immunohistochemistry
Immunohistochemistry of TCTN1 antibody. Tissue: human kidney tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TCTN1 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TCTN1 is a membrane protein. Staining: TCTN1 as precipitated pink signal with purple nuclear counterstain.



Western Blot
Western Blot of TCTN1 antibody. Lane 1: Mouse kidney tissue lysate with TCTN1 antibody at 1 µg/mL. Lane 2: Mouse kidney tissue lysate with TCTN1 antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 64 kDa, 80 kDa for TCTN1. Other band(s): TCTN1 splice variants and isoforms.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TCTN1 antibody. Tissue: Human kidney cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TCTN1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TCTN1 is a membrane protein. Staining: TCTN1 as red fluorescent signal.

Disclaimer

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