

For Research Use Only

# TCTN1 Polyclonal antibody

Catalog Number: 15004-1-AP **29 Publications**



## Basic Information

<b>Catalog Number:</b> 15004-1-AP	<b>GenBank Accession Number:</b> BC062611	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 400 µg/ml	<b>GeneID (NCBI):</b> 79600	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q2MV58	IHC 1:20-1:200
<b>Isotype:</b> IgG	<b>Full Name:</b> tectonic family member 1	IF-P 1:200-1:500
<b>Immunogen Catalog Number:</b> AG6099	<b>Calculated MW:</b> 64 kDa	IF/ICC 1:200-1:800
	<b>Observed MW:</b> 55-64 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	WB : fetal human brain tissue, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	IHC : human kidney tissue,
<b>Cited Species:</b> human, mouse, zebrafish	IF-P : human kidney tissue, hTERT-RPE1 cells
	IF/ICC : hTERT-RPE1 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Tectonic-1, encoded by TCTN1 (TECT1) gene, belongs to the tectonic family of secreted and transmembrane proteins. Tectonic-1 is a component of the tectonic-like complex, a complex localized at the transition zone of primary cilia and acting as a barrier that prevents diffusion of transmembrane proteins between the cilia and plasma membranes. Multiple transcript variants encoding different isoforms have been found for this gene. Defects in TCTN1 are the cause of Joubert syndrome type 13 (JBTS13), a disorder presenting with cerebellar ataxia, oculomotor apraxia, hypotonia, neonatal breathing abnormalities and psychomotor delay. During neural tube development, mouse Tectonic is required for formation of the most ventral cell types and for full Hedgehog (Hh) pathway activation. Epistasis analyses reveal that Tectonic modulates Hh signal transduction downstream of Smoothened (Smo) and Rab23.

## Notable Publications

Author	Pubmed ID	Journal	Application
Philipp P Prosseda	28871046	J Cell Sci	IF
Laura Vuolo	30320547	Elife	IF
Eunji Jung	31914703	FASEB J	IF

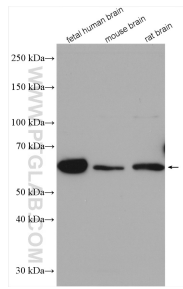
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

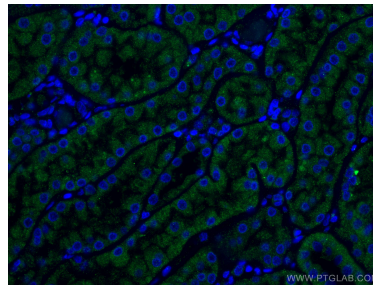
For technical support and original validation data for this product please contact:  
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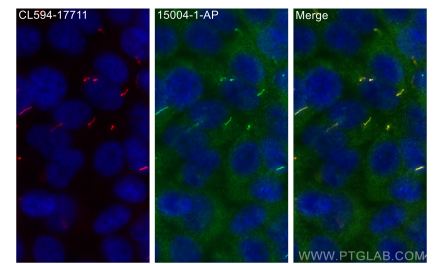
## Selected Validation Data



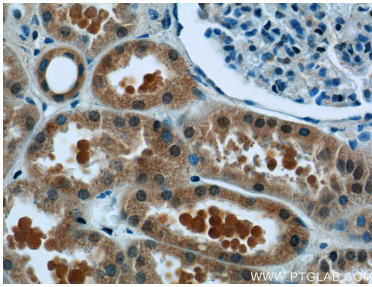
Various lysates were subjected to SDS PAGE followed by western blot with 15004-1-AP (TCTN1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using TCTN1 antibody (15004-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed hTERT-RPE1 cells using TCTN1 antibody (15004-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CoraLite®594 ARL13B antibody (CL594-17711, red).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 15004-1-AP (TCTN1 Antibody) at dilution of 1:50 (under 40x lens).