

# TCTN3 Polyclonal antibody

Catalog Number: 16085-1-AP

2 Publications

## Basic Information

<b>Catalog Number:</b> 16085-1-AP	<b>GenBank Accession Number:</b> BC009494	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 26123	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> tectonic family member 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 607 aa, 66 kDa	
<b>Immunogen Catalog Number:</b> AG9084	<b>Observed MW:</b> 66 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, WB	<b>WB :</b> mouse liver tissue,
<b>Species Specificity:</b> human, mouse	<b>IHC :</b> human lung tissue,
<b>Cited Species:</b> human, mouse	

**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

TCTN3 (tectonic-3 or TECT3) is a type I membrane protein that belongs to the tectonic family, which consists of TCTN1, TCTN2 and TCTN3. Studies in mice suggest that tectonic may be involved in Hedgehog (Hh) signaling, and essential for ciliogenesis. Tectonic is 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. TCTN3 is necessary for transduction of the sonic hedgehog (SHH) signaling pathway. Orofaciodigital syndromes (OFDSs) consist of a group of heterogeneous disorders characterized by abnormalities in the oral cavity, face, and digits and associated phenotypic abnormalities. Recently, TCTN3 mutations are found as the cause of an extreme form of OFD associated with bone dysplasia, tibial defect, cystic kidneys, and brain anomalies.

## Notable Publications

Author	Pubmed ID	Journal	Application
Antonia Wiegner	29650680	EMBO J	IF
Garcia-Gonzalo Francesc R FR	21725307	Nat Genet	WB,IF

## Storage

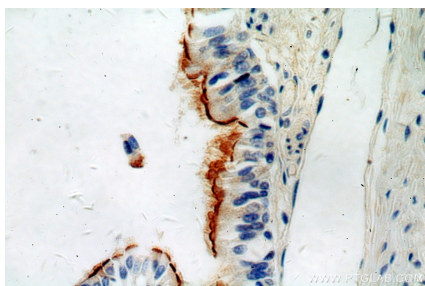
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

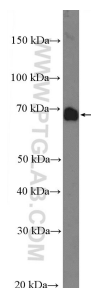
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human lung using 16085-1-AP (TCTN3 antibody) at dilution of 1:50 (under 40 $\times$  lens).



mouse liver tissue were subjected to SDS PAGE followed by western blot with 16085-1-AP (TCTN3 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.