

For Research Use Only

# TCTN2 Recombinant antibody

Catalog Number: 82121-1-RR



## Basic Information

<b>Catalog Number:</b> 82121-1-RR	<b>GenBank Accession Number:</b> BC009112	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 79867	<b>CloneNo.:</b> 1E17
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96GX1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> tectonic family member 2	
<b>Immunogen Catalog Number:</b> AG10725	<b>Calculated MW:</b> 697 aa, 77 kDa	
	<b>Observed MW:</b> 90 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, rat	<b>WB :</b> HEK-293 cells, A431 cells, HeLa cells, Jurkat cells, K-562 cells, RAW 264.7 cells

## Background Information

TCTN2 (tectonic-2 or TECT2) 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. It exists two splicing isoforms. The first aberrant transcript introduces 104 base pair from intron 13 and would delete 196 original amino acid, introduce two novel amino acids, and prematurely truncate the 697aa protein at residue number 504. The second transcript lacks exon 14 and would delete 195 original amino acids, introduce four novel amino acids, and prematurely truncate the 697 aa protein at residue number 507. The molecular weight of two isoforms are about 50kDa. We detected the 50kDa and 90kDa protein by immunoprecipitation, but 50kDa protein may be the splicing isoform or non-specific band.

## Storage

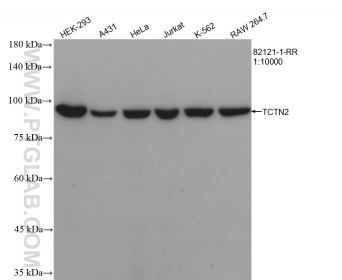
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

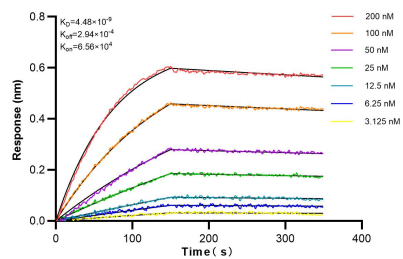
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82121-1-RR (TCTN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82121-1-RR against Human TCTN2 were performed. The affinity constant is 4.48 nM.