

## Tie2 Polyclonal antibody

Catalog Number: 19157-1-AP **16 Publications**

## Basic Information

<b>Catalog Number:</b> 19157-1-AP	<b>GenBank Accession Number:</b> BC035514	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7010	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:1000-1:4000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02763	
<b>Isotype:</b> IgG	<b>Full Name:</b> TEK tyrosine kinase, endothelial	
<b>Immunogen Catalog Number:</b> AG13523	<b>Calculated MW:</b> 1124 aa, 126 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, IHC, ELISA	<b>Positive Controls:</b> WB : mouse lung tissue, mouse liver tissue IP : mouse lung tissue, IHC : human placenta tissue, mouse kidney tissue
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Tie2 (also known as TEK) is a tyrosine-protein kinase expressed almost exclusively on endothelial cells. It contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. Tie2 acts as a cell-surface receptor for ANGPT1, ANGPT2, and ANGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. Mutations in the gene Tie2 are associated with inherited venous malformations of the skin and mucous membranes. Human Tie2 has a calculated molecular weight of 126 kDa. As a result of glycosylation, the apparent molecular mass of Tie2 is approximately 140-160 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lifeng Wang	36160014	Front Genet	IHC
Daohai Qian	30359310	Stem Cell Res Ther	WB
Jie Zhang	36266491	Mol Cell Biochem	WB

## Storage

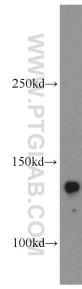
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

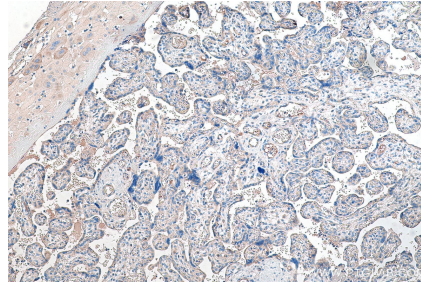
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
 E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

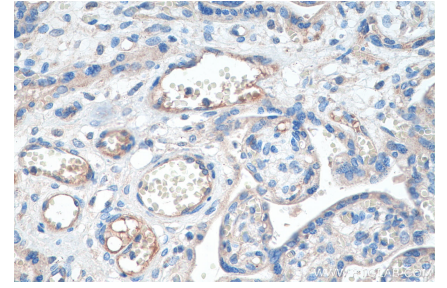
## Selected Validation Data



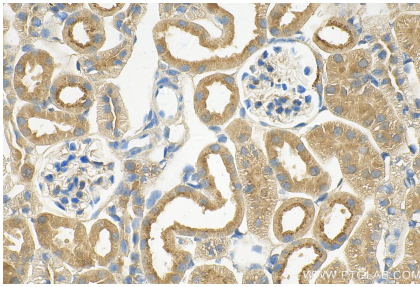
mouse lung tissue were subjected to SDS PAGE followed by western blot with 19157-1-AP (Tie2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



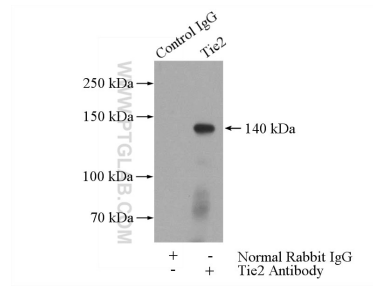
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 19157-1-AP (Tie2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 19157-1-AP (Tie2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 19157-1-AP (Tie2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Tie2 (IP:19157-1-AP, 4ug; Detection:19157-1-AP 1:500) with mouse lung tissue lysate 4000ug.