

For Research Use Only

Tie-2/CD202b Polyclonal antibody

Catalog Number: 19157-1-AP

24 Publications



Basic Information

Catalog Number:

19157-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG13523

GenBank Accession Number:

BC035514

GeneID (NCBI):

7010

UNIPROT ID:

Q02763

Full Name:

TEK tyrosine kinase, endothelial

Calculated MW:

1124 aa, 126 kDa

Observed MW:

140 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

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

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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

Positive Controls:

WB : mouse lung tissue, mouse liver tissue

IP : mouse lung tissue,

IHC : human placenta tissue, mouse kidney tissue

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

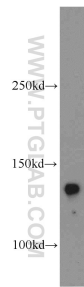
For technical support and original validation data for this product please contact:

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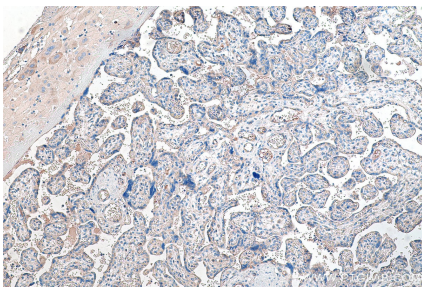
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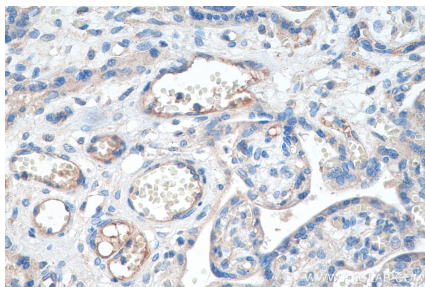
Selected Validation Data



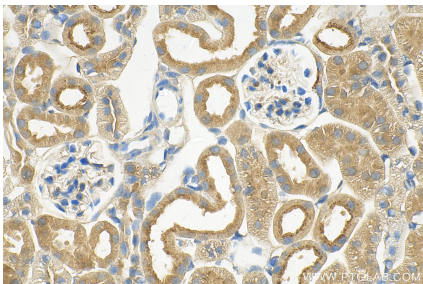
mouse lung tissue were subjected to SDS PAGE followed by western blot with 19157-1-AP (Tie2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



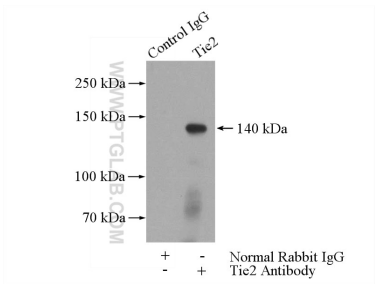
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 19157-1-AP (Tie2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.