Product Name: TIE2 Rabbit Polyclonal Antibody
Catalog #: APRab18924

Summary

Production Name	TIE2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TEK
Alternative Names	Angiopoietin-1 receptor (EC 2.7.10.1;Endothelial tyrosine kinase;Tunica interna endothelial cell kinase;Tyrosine kinase with Ig and EGF homology domains-2;Tyrosine-protein kinase receptor TEK;Tyrosine-protein kinase receptor TIE-2;hTIE2;p140 TEK;CD antigen CD202b)
Gene ID	7010.0
SwissProt ID	Q02763.Synthesized peptide derived from human TIE2 Polyclonal

Application

Dilution Ratio	IHC-P 100-300.WB 1:500-2000, ELISA 1:10000-20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	120kDa

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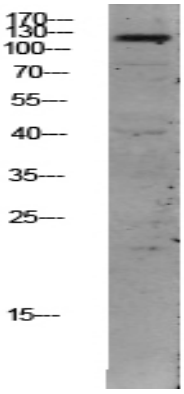
Background

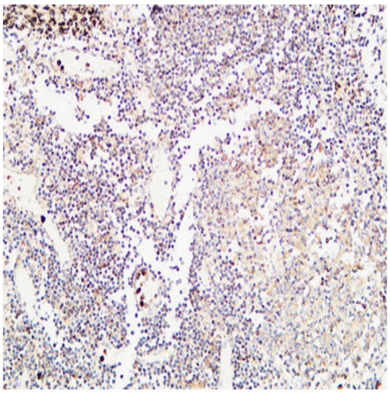
This gene encodes a receptor that belongs to the protein tyrosine kinase Tie2 family. The encoded protein possesses a unique extracellular region that contains two immunoglobulin-like domains, three epidermal growth factor (EGF)-like domains and three fibronectin type III repeats. The ligand angiopoietin-1 binds to this receptor and mediates a signaling pathway that functions in embryonic vascular development. Mutations in this gene are associated with inherited venous malformations of the skin and mucous membranes. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Feb 2014],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in TEK are a cause of dominantly inherited venous malformations (VMCM) [MIM:600195]; an error of vascular morphogenesis characterized by dilated, serpiginous channels.,function:This protein is a protein tyrosine-kinase transmembrane receptor for angiopoietin 1. It may constitute the earliest mammalian endothelial cell lineage marker. Probably regulates endothelial cell proliferation, differentiation and guides the proper patterning of endothelial cells during blood vessel formation.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. Tie subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,similarity:Contains 3 EGF-like domains.,similarity:Contains 3 fibronectin type-III domains.,tissue specificity:Predominantly expressed in endothelial cells and their progenitors, the angioblasts. Has been directly found in placenta and lung, with a lower level in umbilical vein endothelial cells, brain and kidney.,

Research Area

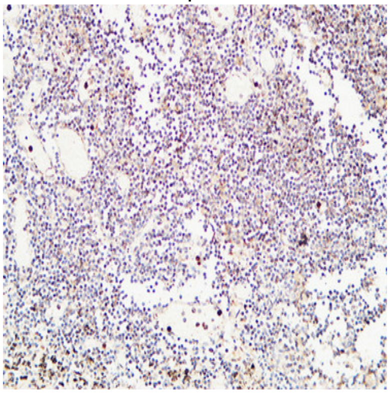
Image Data



Western blot analysis of CACO2 lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded Human Amygdala. 1, Antibody was diluted at 1:200（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.



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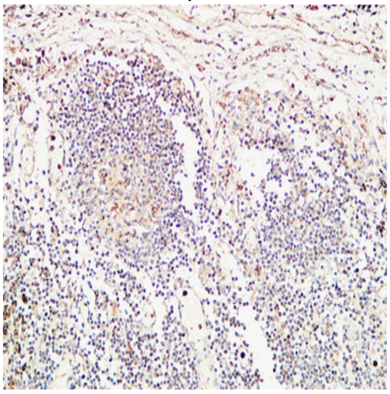

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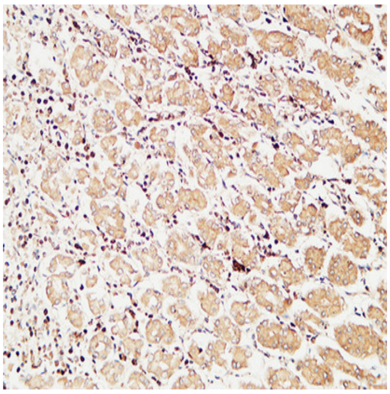
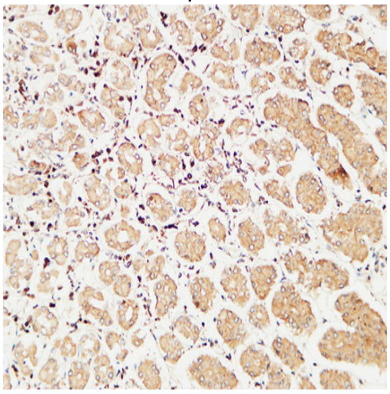
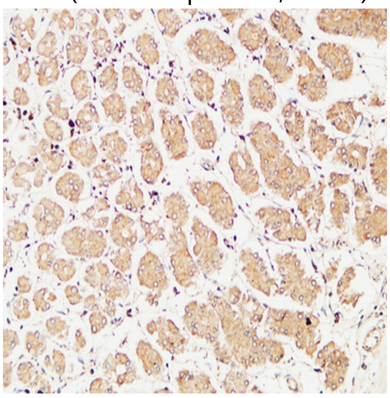


Immunohistochemical analysis of paraffin-embedded Human stomach. 1, Antibody was diluted at 1:400（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.



Immunohistochemical analysis of paraffin-embedded Human stomach. 1, Antibody was diluted at 1:400（4°,overnight）. 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200（room temperature, 30min）.



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Note

For research use only.