

## Tie-2 (Phospho Tyr1108) Rabbit pAb

CatalogNo: YP0533

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse

#### Applications

- WB, IF, ELISA, IHC

#### MW

- 150kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

**IF 1:200-1:1000**

**ELISA 1:2000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human TIE2 around the phosphorylation site of Tyr1108. AA range:1074-1123

## Specificity

Phospho-Tie-2 (Y1108) Polyclonal Antibody detects endogenous levels of Tie-2 protein only when phosphorylated at Y1108. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): TLYEK

## Target Information

**Gene name** TEK

**Protein Name** Angiopoietin-1 receptor

Organism	Gene ID	UniProt ID
Human	<a href="#">7010</a> ;	<a href="#">Q02763</a> ;
Mouse		<a href="#">Q02858</a> ;

### Cellular Localization

Cell membrane ; Single-pass type I membrane protein. Cell junction . Cell junction , focal adhesion . Cytoplasm , cytoskeleton. Secreted . Recruited to cell-cell contacts in quiescent endothelial cells (PubMed:18425120 , PubMed:18425119) . Colocalizes with the actin cytoskeleton and at actin stress fibers during cell spreading. Recruited to the lower surface of migrating cells , especially the rear end of the cell. Proteolytic processing gives rise to a soluble extracellular domain that is secreted (PubMed:11806244) . .

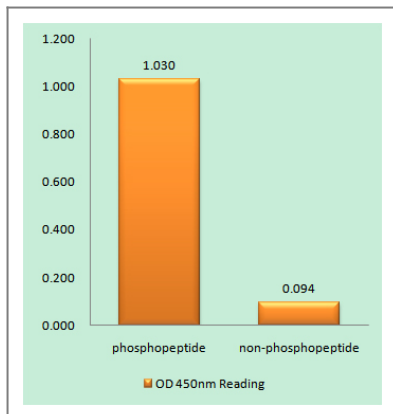
### Tissue specificity

Detected in umbilical vein endothelial cells. Proteolytic processing gives rise to a soluble extracellular domain that is detected in blood plasma (at protein level) . 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.

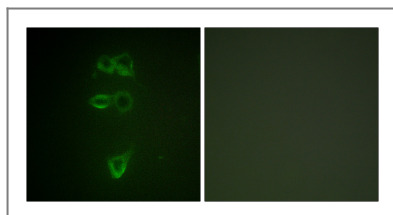
### Function

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. ,

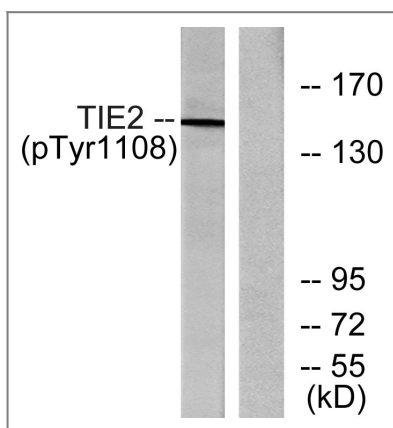
## Validation Data



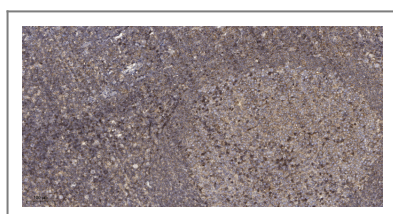
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using TIE2 (Phospho-Tyr1108) Antibody



Immunofluorescence analysis of HepG2 cells, using TIE2 (Phospho-Tyr1108) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells, using TIE2 (Phospho-Tyr1108) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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