

## Flt-1/VEGFR1 (Phospho Tyr1048) Rabbit pAb

CatalogNo: YP1063

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### 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 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human VEGFR1 around the phosphorylation site of Tyr1048. AA range:1016-1065

## Specificity

Phospho-Flt-1 (Y1048) Polyclonal Antibody detects endogenous levels of Flt-1 protein only when phosphorylated at Y1048. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):DlyKN

## Target Information

**Gene name** FLT1

**Protein Name** Vascular endothelial growth factor receptor 1

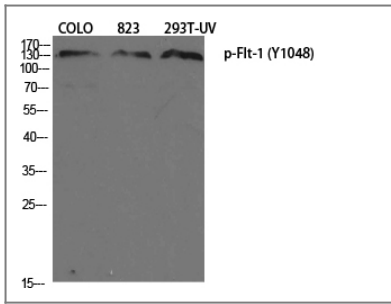
Organism	Gene ID	UniProt ID
Human	<a href="#">2321</a> ;	<a href="#">P17948</a> ;
Mouse	<a href="#">14254</a> ;	<a href="#">P35969</a> ;
Rat	<a href="#">54251</a> ;	<a href="#">P53767</a> ;

**Cellular Localization** [Isoform 1]: Cell membrane; Single-pass type I membrane protein. Endosome. Autophosphorylation promotes ubiquitination and endocytosis.; [Isoform 2]: Secreted .; [Isoform 3]: Secreted.; [Isoform 4]: Secreted.; [Isoform 5]: Cytoplasm .; [Isoform 6]: Cytoplasm .; [Isoform 7]: Cytoplasm .

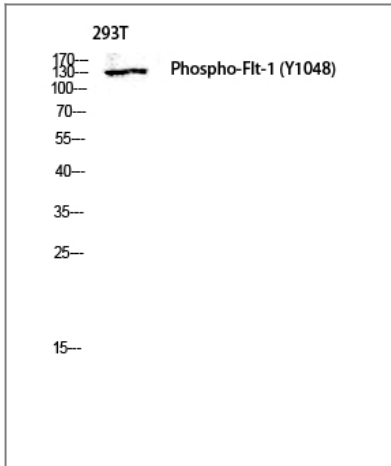
**Tissue specificity** Detected in normal lung , but also in placenta , liver , kidney , heart and brain tissues. Specifically expressed in most of the vascular endothelial cells , and also expressed in peripheral blood monocytes. Isoform 2 is strongly expressed in placenta. Isoform 3 is expressed in corneal epithelial cells (at protein level) . Isoform 3 is expressed in vascular smooth muscle cells (VSMC) .

**Function** Alternative products:Additional isoforms seem to exist ,Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,Function:Receptor for VEGF , VEGFB and PGF. Has a tyrosine-protein kinase activity. The VEGF-kinase ligand/receptor signaling system plays a key role in vascular development and regulation of vascular permeability. Isoform sFlt1 may have an inhibitory role in angiogenesis. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. ,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 7 Ig-like C2-type (immunoglobulin-like) domains. ,subunit:Interacts in vitro with various phosphotyrosine-binding proteins , including PLC-gammas , PTPN11 , GRB2 , CRK and NCK1. ,tissue specificity:Mostly in normal lung , but also in placenta , liver , kidney , heart and brain tissues. Specifically expressed in most of the vascular endothelial cells , and also expressed in peripheral blood monocytes. It is not expressed in tumor cell lines. Isoform sFlt1 is strongly expressed in placenta. ,

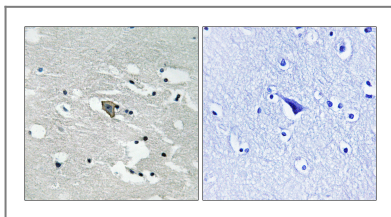
## Validation Data



Western Blot analysis of various cells using Phospho-Flt-1 (Y1048) Polyclonal Antibody diluted at 1:1000



Western blot analysis of 293T lysis using Phospho-Flt-1 (Y1048) antibody. Antibody was diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human brain, using VEGFR1 (Phospho-Tyr1048) Antibody. The picture on the right is blocked with the phospho peptide.

## Contact information

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Please scan the QR code to access additional product information:  
**Flt-1/VEGFR1**  
**(Phospho Tyr1048)**  
**Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

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