Flk-1/VEGFR2 (Phospho Tyr1214) Rabbit pAb

CatalogNo: YP0111 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 152kD (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 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human VEGFR2 around the phosphorylation site of Tyr1214. AA range:1180-1229

Specificity Phospho-Flk-1 (Y1214) Polyclonal Antibody detects endogenous levels of Flk-1 protein only when phosphorylated at Y1214.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):FHyDN

Target Information

Gene name KDR FLK1 VEGFR2

Protein Name Vascular endothelial growth factor receptor 2

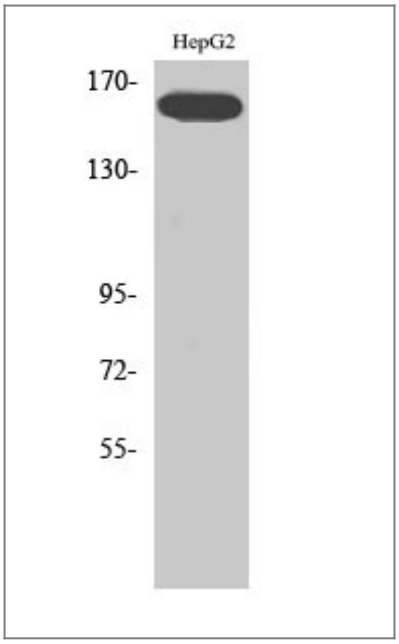
Organism	Gene ID	UniProt ID
Human	3791;	P35968;
Mouse		P35918;
Rat	25589;	O08775;

Cellular Localization Cell junction . Endoplasmic reticulum . Cell membrane . Localized with RAP1A at cell-cell junctions (By similarity) . Colocalizes with ERN1 and XBP1 in the endoplasmic reticulum in endothelial cells in a vascular endothelial growth factor (VEGF) -dependent manner (PubMed:23529610) . .; [Isoform 1]: Cell membrane; Single-pass type I membrane protein. Cytoplasm. Nucleus. Cytoplasmic vesicle. Early endosome. Detected on caveolae-enriched lipid rafts at the cell surface. Is recycled from the plasma membrane to endosomes and back again. Phosphorylation triggered by VEGFA binding promotes internalization and subsequent degradation. VEGFA binding triggers internalization and translocation to the nucleus.; [Isoform 2]: Secreted .; [Isoform 3]: Secreted.

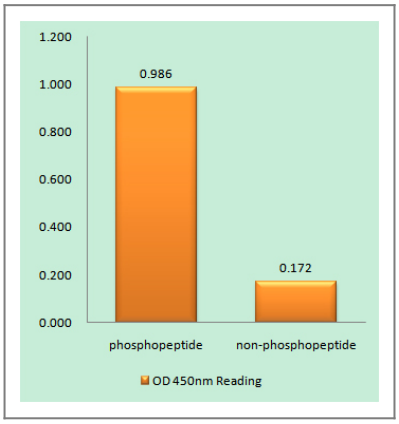
Tissue specificity Detected in cornea (at protein level) . Widely expressed.

Function Catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate. ,Function:Receptor for VEGF or VEGFC. 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. In case of HIV-1 infection , the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. ,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 with MYOF (By similarity) . Interacts with SHB; upon VEGF activation. Interacts with HIV-1 Tat. ,

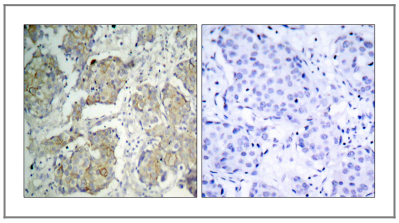
Validation Data



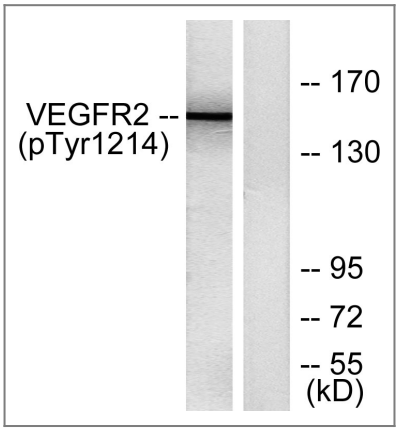
Western Blot analysis of various cells using Phospho-Flk-1 (Y1214) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using VEGFR2 (Phospho-Tyr1214) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using VEGFR2 (Phospho-Tyr1214) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HepG2 cells treated with Na3VO4 0.3nM 40', using VEGFR2 (Phospho-Tyr1214) Antibody. The lane 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:
Flk-1/VEGFR2 (Phospho Tyr1214) Rabbit pAb

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