For Research Use Only

VEGF Receptor 2 Polyclonal ANTIBODY

Catalog Number: 26415-1-AP

Basic Information

- **Catalog Number:** 26415-1-AP
- **Size:** 60 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG24589
- **GenBank Accession Number:** BC131822
- **GeneID (NCBI):** 3791
- **Full Name:** Kinase insert domain receptor (a type III receptor tyrosine kinase)
- **Calculated MW:** 1356aa, 152 kDa
- **Observed MW:** 200 kDa

Recommended Dilutions:
- **WB:** 1:500-1:1000
- **IHC:** 1:50-1:500

Applications

- **Tested Applications:** FC, IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse, rat, sheep

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

Background Information

KDR, also named as VEGFR-2, FLK1 and CD309, is a receptor for VEGF or VEGFC. KDR which belongs to the protein kinase superfamily, 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. KDR functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. Mutations of this gene are implicated in infantile capillary hemangiomas.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bin Wang</td>
<td>30417390</td>
<td>J Cell Physiol</td>
<td>WB</td>
</tr>
<tr>
<td>Dehua Zhu</td>
<td>29442565</td>
<td>Oncol Rep</td>
<td>WB/IHC</td>
</tr>
<tr>
<td>Zhuofeng Ding</td>
<td>29879565</td>
<td>Front Neuosci</td>
<td>IF</td>
</tr>
</tbody>
</table>

Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buff:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:
- T 1 (888) 4PRTELAB (1-888-478-4522) (toll free in USA), or (312) 455-8498 (outside USA)
- E proteintech@ptglab.com
- W ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
human placenta tissue were subjected to SDS-PAGE followed by western blot with 26415-1-AP VEGF Receptor 2 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemistry of paraffin-embedded human oesophagus cancer tissue slide using 26415-1-AP VEGF Receptor 2 antibody at dilution of 1:200 (under 10x lens).

Immunohistochemistry of paraffin-embedded human oesophagus cancer tissue slide using 26415-1-AP VEGF Receptor 2 antibody at dilution of 1:200 (under 40x lens).

10^6 HUVEC cells were stained with 0.2μg VEGF Receptor 2 antibody (26415-1-AP, red) and control antibody (blue). Fixed with 4% PFA, blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.