Antibody Details:

**Product name**: Anti-VEGF Receptor 1 antibody

**Description**: Rabbit polyclonal to VEGF Receptor 1

**Host species**: Rabbit

**Tested applications**: Suitable for: IHC-P, Electron Microscopy, WB, ICC/IF

**Species reactivity**: Reacts with: Mouse, Rat, Human, Pig

**Immunogen**: Synthetic peptide within Human VEGF Receptor 1 aa 1300 to the C-terminus (C terminal). The exact sequence is proprietary.

**Database link**: P17948

**Positive control**: IHC-P: Mouse lung tissue; human angiosarcoma tissue. ICC/IF: A431 cell line

**General notes**: This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

**Overview**: VEGFR 1 is a cell membrane receptor kinase. It has a high affinity receptor for vascular endothelial growth factor and is putatively involved in the growth of endothelial cells and angiogenesis.

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
- **Storage buffer**: pH: 7.6, Preservative: 0.1% Sodium azide, Constituents: PBS, 1% BSA
- **Purity**: Immunogen affinity purified
- **Primary antibody notes**: VEGFR 1 is a cell membrane receptor kinase. It has a high affinity receptor for vascular endothelial growth factor and is putatively involved in the growth of endothelial cells and angiogenesis.
- **Clonality**: Polyclonal
- **Isotype**: IgG
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.

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. Isoform sFlt1 is strongly expressed in placenta.

Sequence similarities
Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 protein kinase domain.

Cellular localization
Secreted and Cell membrane.

Applications
Our Abpromise guarantee covers the use of ab2350 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
<td>1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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<tr>
<td>Electron Microscopy</td>
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<td>1/100. PubMed: 18647955</td>
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<td>WB</td>
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<td>Use at an assay dependent concentration. PubMed: 21912702</td>
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<tr>
<td>ICC/IF</td>
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<td>Use a concentration of 5 µg/ml.</td>
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Target

Images
ab2350 staining the VEGF Receptor 1 in Mouse lung tissue sections by Immunohistochemistry (IHC-P - formaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 hour at room temperature; antigen retrieval was by heat mediation in citrate buffer (pH 6). Samples were incubated with primary antibody (1/100) for 16 hours at 4°C. An undiluted biotin-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.
ICC/IF image of ab2350 stained A431 (human epidermoid carcinoma cell line) cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab2350, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

ab2350 - immunohistochemistry

Formalin fixed paraffin embedded human angiosarcoma stained with VEGF Receptor 1, using ABC and AEC chromogen.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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