Product datasheet

Anti-VEGF Receptor 2 antibody ab11939

21 References  6 Images

Overview

Product name  Anti-VEGF Receptor 2 antibody
Description  Rabbit polyclonal to VEGF Receptor 2
Host species  Rabbit
Specificity  The polyclonal antibody will detect native and recombinant human VEGFR2/KDR in ELISA experiments and on the surface or solubilized from different human cell types.

Tested applications  Suitable for: Sandwich ELISA, ELISA, WB, Flow Cyt, IHC-Fr, IP, Neutralising
Species reactivity  Reacts with: Mouse, Rat, Human
Immunogen  Recombinant fragment corresponding to Human VEGF Receptor 2. Highly pure recombinant human soluble extracellular domain of KDR (110 kDa) (D1-D7).

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer  pH: 7.40  Constituent: PBS
Purity  Protein A purified
Purification notes  This antibody is affinity purified from rabbit sera.
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab11939 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>
</tr>
</thead>
</table>
**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.

**Involvement in disease**
Defects in KDR are associated with susceptibility to hemangioma capillary infantile (HCI) [MIM:602089]. HCI are benign, highly proliferative lesions involving aberrant localized growth of capillary endothelium. They are the most common tumor of infancy, occurring in up to 10% of all births. Hemangiomas tend to appear shortly after birth and show rapid neonatal growth for up to 12 months characterized by endothelial hypercellularity and increased numbers of mast cells. This phase is followed by slow involution at a rate of about 10% per year and replacement by fibrofatty stroma.

**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.

**Post-translational modifications**
Phosphorylated. Dephosphorylated by PTPRB. Dephosphorylated by PTPRJ at Tyr-951, Tyr-996, Tyr-1054, Tyr-1059, Tyr-1175 and Tyr-1214.

**Cellular localization**
Membrane.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandwich ELISA</td>
<td>Use a concentration of 0.5 µg/ml. Can be paired for Sandwich ELISA with Mouse monoclonal [mV1001.3m-h] to VEGF Receptor 2 (ab42228). For sandwich ELISA, use this antibody as Detection at 0.5µg/ml with ab42228 as Capture.</td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td>Use a concentration of 5 - 15 µg/ml.</td>
<td></td>
</tr>
<tr>
<td>WB</td>
<td>Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 151 kDa.</td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>Use a concentration of 1 - 5 µg/ml. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
</tr>
<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>Use at 1-2 µg/mg of lysate.</td>
<td></td>
</tr>
<tr>
<td>Neutralising</td>
<td>Use a concentration of 20 - 25 µg/ml. PubMed: 17991870</td>
<td></td>
</tr>
</tbody>
</table>
**Western blot** - Anti-VEGF Receptor 2 antibody (ab11939)

- **All lanes**: Anti-VEGF Receptor 2 antibody (ab11939)
- **Lane 1**: recombinant human soluble VEGFR-2
- **Lane 2**: recombinant native VEGFR-2

**Secondary**

- **All lanes**: anti-rabbit AP-conjugated antibody

**Predicted band size**: 151 kDa

Samples were loaded in 10% SDS-PAGE under reducing conditions.

**Flow Cytometry** - Anti-VEGF Receptor 2 antibody (ab11939)

Flow Cytometry analysis of primary human dermal lymphatic endothelial cells (HDLEC) labelling VEGF Receptor 2 with ab11939.

Flow Cytometry analysis of primary human umbilical vein endothelial cells (HUVEC) labelling VEGF Receptor 2 with ab11939.
Immunohistochemistry (Frozen sections) analysis of human spleen tissue sections labelling VEGF Receptor 2 with ab11939.

Immunohistochemistry (Frozen sections) analysis of human spleen tissue sections labelling VEGF Receptor 2 with ab11939.

Standard curve for VEGF Receptor 2 (Analyte: ab54347); dilution range 1pg/ml to 1µg/ml using Capture Antibody Mouse monoclonal [mV1001.3m-h] to VEGF Receptor 2 (ab42228) at 5µg/ml and Detector Antibody Rabbit polyclonal to VEGF Receptor 2 (ab11939) at 0.5µg/ml.

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

Our Abpromise to you: Quality guaranteed and expert technical support
Replacement or refund for products not performing as stated on the datasheet
Valid for 12 months from date of delivery
Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors