

Product datasheet

Anti-VEGF Receptor 2 antibody ab11939

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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, IP, ELISA, Neutralising, WB, Flow Cyt, IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Human, Recombinant fragment
Immunogen	Recombinant fragment corresponding to Human VEGF Receptor 2. Highly pure recombinant human soluble extracellular domain of KDR (110 kDa) (D1-D7).
Positive control	IHC: Human spleen Flow Cyt: HUVEC (Human umbilical vein endothelial cell line) whole cell lysate and HDLEC (Human dermal lymphatic endothelial cell line) whole cell lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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	Constituent: PBS
Purity	Protein A purified
Purification notes	This antibody is affinity purified from rabbit sera.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

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.

Application	Abreviews	Notes
Sandwich ELISA		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.
IP		Use at an assay dependent concentration.
ELISA		Use at an assay dependent concentration.
Neutralising		Use at an assay dependent concentration. PubMed: 17991870
WB	★★★★★ (1)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 151 kDa.
Flow Cyt		Use a concentration of 1 - 5 µg/ml. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

Target

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

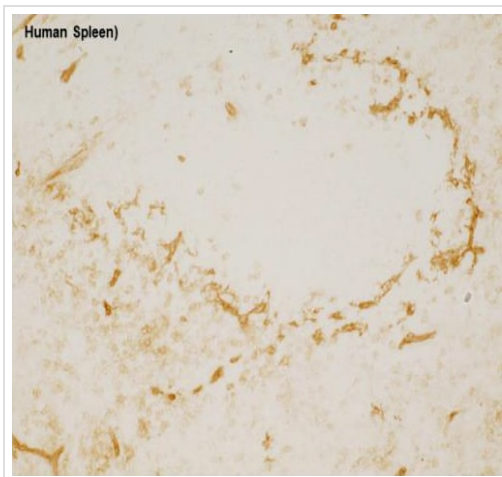
Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.
Contains 1 protein kinase domain.

Post-translational modifications

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

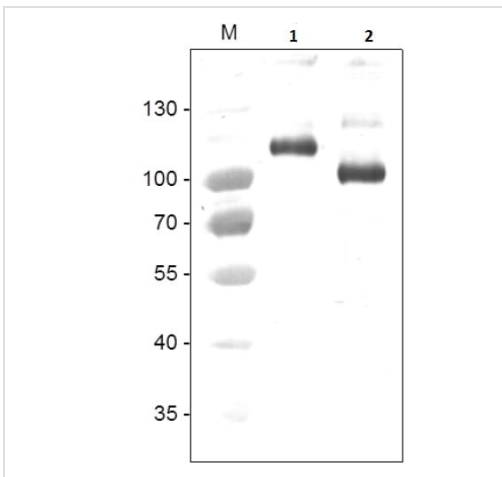
Cellular localization

Membrane.



Immunohistochemistry (Frozen sections) - Anti-VEGF Receptor 2 antibody (ab11939)

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



Western blot - Anti-VEGF Receptor 2 antibody (ab11939)

All lanes : Anti-VEGF Receptor 2 antibody (ab11939)

Lane 1 : recombinant human soluble VEGFR-2

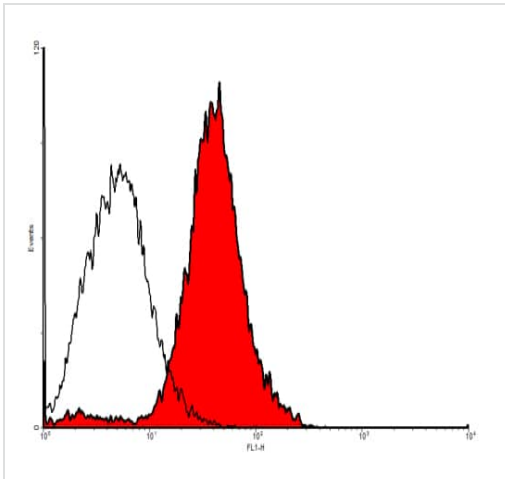
Lane 2 : recombinant native VEGFR-2

Secondary

All lanes : anti-rabbit AP-conjugated antibody

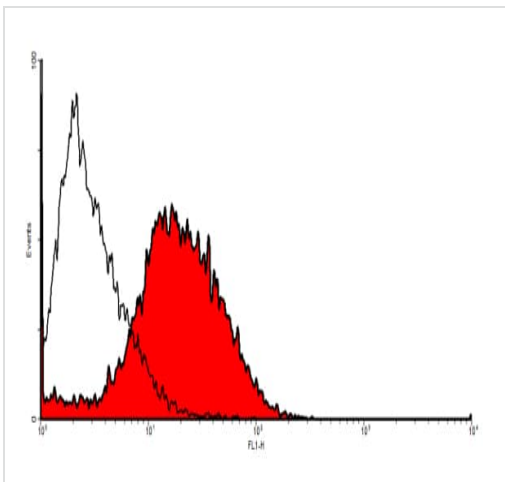
Predicted band size: 151 kDa

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



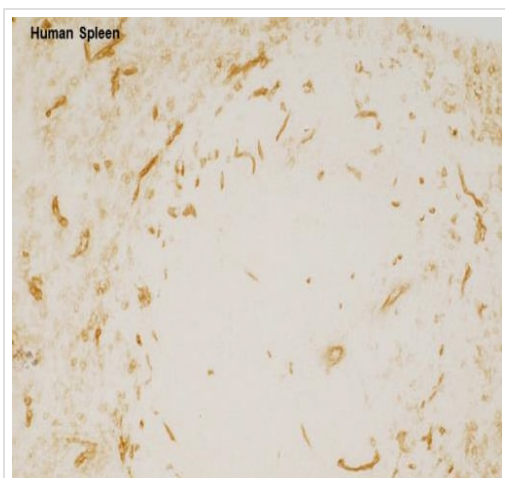
Flow Cytometry analysis of primary human dermal lymphatic endothelial cells (HDLEC) labelling VEGF Receptor 2 with ab11939.

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



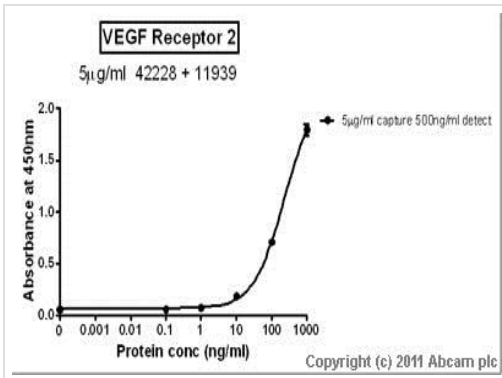
Flow Cytometry analysis of primary human umbilical vein endothelial cells (HUVEC) labelling VEGF Receptor 2 with ab11939.

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



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

Immunohistochemistry (Frozen sections) - Anti-VEGF Receptor 2 antibody (ab11939)



Sandwich ELISA - Anti-VEGF Receptor 2 antibody
(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"

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