

Product datasheet

Anti-VEGF Receptor 3 antibody ab27278

★★★★★ [8 Abreviews](#) [44 References](#) [4 Images](#)

Overview

Product name	Anti-VEGF Receptor 3 antibody
Description	Rabbit polyclonal to VEGF Receptor 3
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P, IHC - Wholemount
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human VEGF Receptor 3 aa 1250-1350. The exact sequence is proprietary. Database link: P35916
Positive control	IHC-P: Human placenta tissue. ICC/IF: HeLa cells. WB: Hey cell lysate.
General notes	<p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab27278 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
ICC/IF		Use a concentration of 1 µg/ml.
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 146 kDa.
IHC-P	★★★★★ (5)	1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC - Wholemount	★★★★★ (1)	Use at an assay dependent concentration.

Target

Function

Receptor for VEGFC. Has a tyrosine-protein kinase activity.

Tissue specificity

Placenta, lung, heart, and kidney, does not seem to be expressed in pancreas and brain.

Involvement in disease

Defects in FLT4 are the cause of lymphedema hereditary type 1A (LMPH1A) [MIM:153100]; also known as Nonne-Milroy lymphedema or Milroy disease. Hereditary lymphedema is a chronic disabling condition which results in swelling of the extremities due to altered lymphatic flow. Patients with lymphedema suffer from recurrent local infections and physical impairment. Note=Defects in FLT4 are found in juvenile hemangioma. Juvenile hemangiomas are the most common tumors of infancy, occurring as many as 10% of all births. These benign vascular lesions enlarge rapidly during the first year of life by hyperplasia of endothelial cells and attendant pericytes, and then spontaneously involute over a period of years, leaving loose fibrofatty tissue.

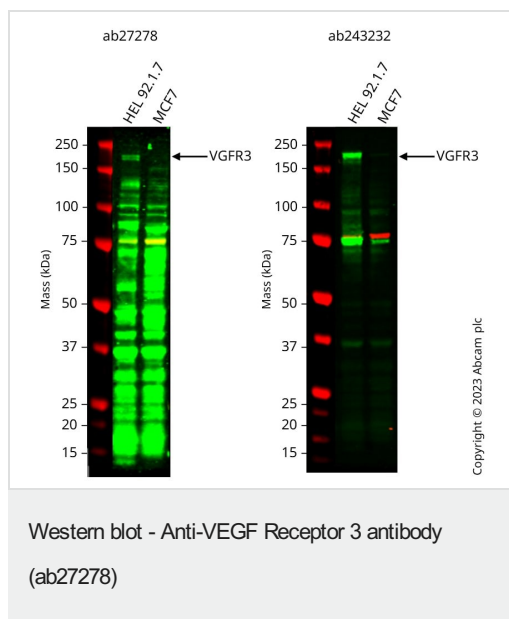
Sequence similarities

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

Membrane.

Images



All lanes : Anti-VEGF Receptor 3 antibody (ab27278) at 1/1000 dilution

Lane 1 : HEL 92.1.7 cell lysate

Lane 2 : MCF7 cell lysate

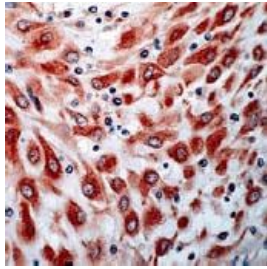
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 146 kDa

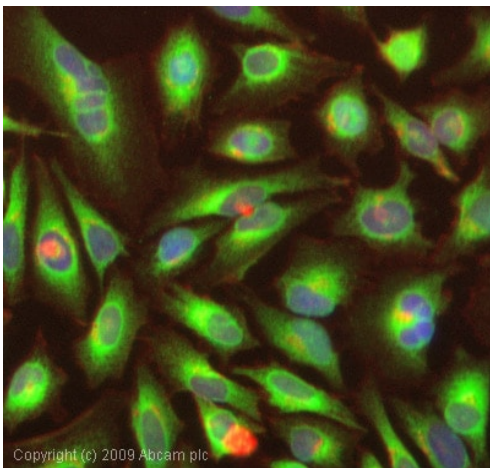
Observed band size: 200 kDa

Anti-FLT4 antibody (ab27278) staining at 1/1000 dilution, shown in green; Mouse anti-CANX [CANX/1543] ([ab238078](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab27278 was shown to bind specifically to FLT4 but with several non-specific bands. We recommend [ab243232](#) for Western blot. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



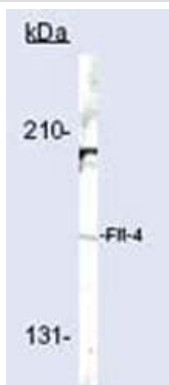
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGF Receptor 3 antibody (ab27278)

Ab27278 at a dilution of 1/100, staining formalin fixed paraffin embedded Flt4 in human placenta by Immunohistochemistry.



Immunocytochemistry/ Immunofluorescence - Anti-VEGF Receptor 3 antibody (ab27278)

ICC/IF image of ab27278 stained HeLa cells. The cells were 4% PFA fixed (10 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 (ab27278, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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.



Western blot - Anti-VEGF Receptor 3 antibody (ab27278)

Anti-VEGF Receptor 3 antibody (ab27278) at 1/50 dilution

Predicted band size: 146 kDa

Observed band size: 170,200 kDa

Hey cell lysate (50µg/lane) was used. The antibody was diluted at 1:50 for 2 hours at room temperature. Hey cell lysate (50µg/lane) was used. The antibody was diluted at 1:50 for 2 hours at room temperature. The protein is heavily glycosylated and this might explain the increase in MW above the predicted MW as well as the multiple bands.

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

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