

## Product datasheet

# Anti-VEGFA antibody [EP1176Y] - C-terminal ab52917

Recombinant RabMAb

★★★★★ [9 Abreviews](#) [190 References](#) [5 Images](#)

### Overview

<b>Product name</b>	Anti-VEGFA antibody [EP1176Y] - C-terminal
<b>Description</b>	Rabbit monoclonal [EP1176Y] to VEGFA - C-terminal
<b>Host species</b>	Rabbit
<b>Specificity</b>	We do not guarantee IHC-P for mouse.  This antibody fails to detect endogenous natural samples in WB. We recommend to use <a href="#">ab214424</a> for WB.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF, Flow Cyt (Intra) <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Synthetic peptide within Human VEGFA aa 200 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <a href="#">P15692</a>
<b>Positive control</b>	IHC-P: Human kidney tissue. ICC/IF: NIH/3T3 cells. Flow Cyt (intra): NIH/3T3 cells.
<b>General notes</b>	Abcam recommended secondaries - Goat Anti-Rabbit HRP ( <a href="#">ab205718</a> ) and Goat Anti-Rabbit Alexa Fluor® 488 ( <a href="#">ab150077</a> ). Or search our wide range of secondary antibodies for use with your experiment.  This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> For more information <a href="#">see here</a> .  Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, PBS, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EP1176Y
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab52917 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
IHC-P	★★★★★ (6)	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.  See <b>IHC antigen retrieval protocols</b> .
ICC/IF	★★★★★ (1)	1/250 - 1/500.
Flow Cyt (Intra)		1/30. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. For unpurified use at 1/100 - 1/1000 dilution.

**Application notes** Is unsuitable for WB.

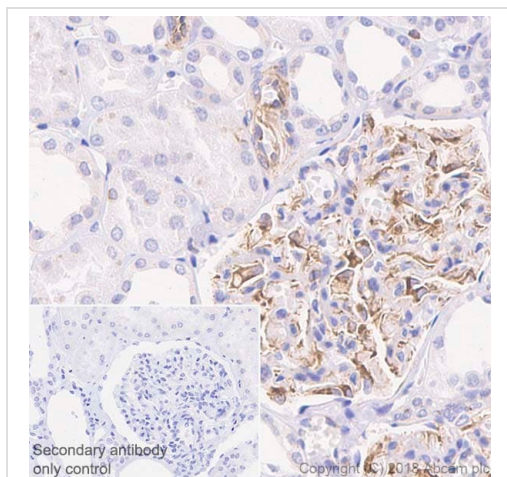
## Target

<b>Function</b>	Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.
<b>Tissue specificity</b>	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.
<b>Involvement in disease</b>	Defects in VEGFA are a cause of susceptibility to microvascular complications of diabetes type 1 (MVCD1) [MIM:603933]. These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis.
<b>Sequence similarities</b>	Belongs to the PDGF/VEGF growth factor family.

## Cellular localization

Secreted. VEGF121 is acidic and freely secreted. VEGF165 is more basic, has heparin-binding properties and, although a significant proportion remains cell-associated, most is freely secreted. VEGF189 is very basic, it is cell-associated after secretion and is bound avidly by heparin and the extracellular matrix, although it may be released as a soluble form by heparin, heparinase or plasmin.

## Images

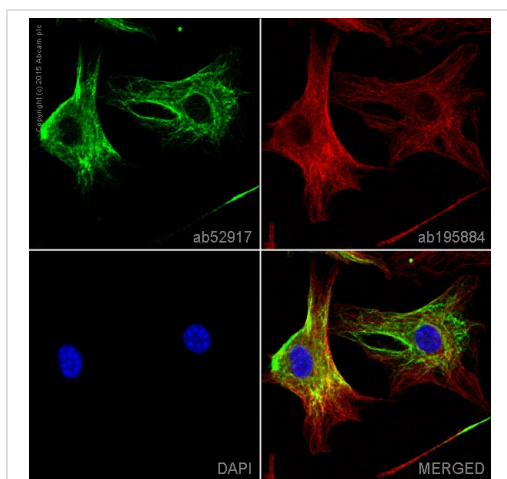


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue sections labeling VEGFA with purified ab52917 at 1:100 dilution (2.96 µg/ml).

Heat mediated antigen retrieval was performed using citrate buffer, pH 6.0.

**Negative control** shown in inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGFA antibody [EP1176Y] (ab52917)

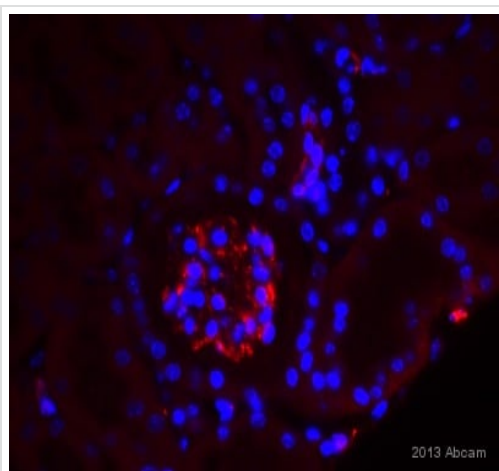


Purified ab52917 staining VEGF in NIH/3T3 (Mouse embryo fibroblast cell line) cells.

The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with purified ab52917 at 5 µg/ml and **ab195884**, at 1/250 dilution, overnight at +4°C, followed by a further incubation at room temperature for 1h with an Goat anti-Rabbit Alexa Fluor®488 secondary (**ab150081**) at 2 µg/ml (shown in green).

Nuclear DNA was labeled in blue with DAPI.

Immunocytochemistry/ Immunofluorescence - Anti-VEGFA antibody [EP1176Y] (ab52917)

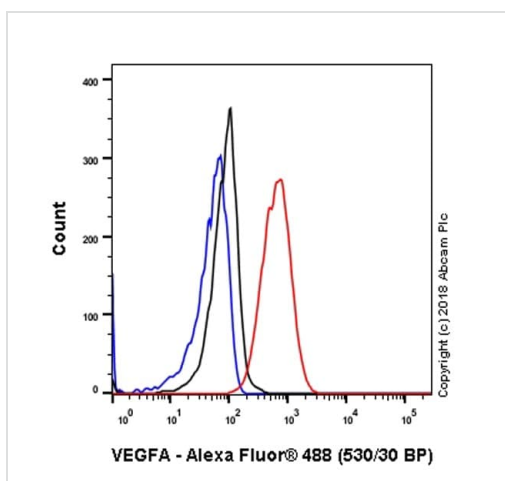


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGFA antibody [EP1176Y] (ab52917)

This image is courtesy of an anonymous Abreview

Unpurified ab52917 staining VEGF in mouse kidney tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections).

Tissue was fixed with paraformaldehyde, permeabilized with 0.3% Triton X-100 and blocked with 5% serum for 45 minutes at 25°C. Samples were incubated with primary antibody (1/400 in 4% BSA + 5% serum in PBST) for 14 hours at 4°C. An Alexa Fluor® 546-conjugated Donkey anti-rabbit IgG polyclonal (1/300) was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-VEGFA antibody [EP1176Y] - C-terminal (ab52917)

Intracellular Flow Cytometry analysis of NIH/3T3 (Mouse embryonic fibroblast) cells labeling VEGFA with purified ab52917 at 1/30 dilution (10µg/ml) (red).

Cells were fixed with 4% paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black).

Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-VEGFA antibody [EP1176Y] - C-terminal  
(ab52917)

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

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- Extensive multi-media technical resources to help you
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