

## Product datasheet

# Anti-VEGF Receptor 1 antibody [Y103] ab32152

Recombinant RabMAb

★★★★★ 19 Abreviews 109 References 3 Images

### Overview

<b>Product name</b>	Anti-VEGF Receptor 1 antibody [Y103]
<b>Description</b>	Rabbit monoclonal [Y103] to VEGF Receptor 1
<b>Host species</b>	Rabbit
<b>Specificity</b>	Based on the antibody's immunogen sequence, it recognises 151 kDa VEGF receptor 1/Flt1, splice isoforms sFlt1 (77 kDa) and sFlt1-14 (82 kDa), and isoform 4 (61 kDa). The sequence is not present in isoforms 5-8 based on Uniprot ID P17948.
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP, IHC-Fr <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Chinese hamster
<b>Immunogen</b>	Synthetic peptide within Human VEGF Receptor 1 aa 1-100 (N terminal). The exact sequence is proprietary. (Peptide available as <a href="#">ab182457</a> )
<b>Positive control</b>	WB: Mouse brain tissue. IHC-Fr: Mouse brain tissue.
<b>General notes</b>	Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .  This product is a <a href="#">recombinant rabbit monoclonal antibody</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol, 0.05% BSA
<b>Purity</b>	IgG fraction
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	Y103
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab32152** 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
WB	★★★★★	1/1000 - 1/5000. Predicted molecular weight: 151 kDa.
IHC-P	★★★★★	1/250.
IP		1/100.
IHC-Fr	★★★★★	1/250.

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

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**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.

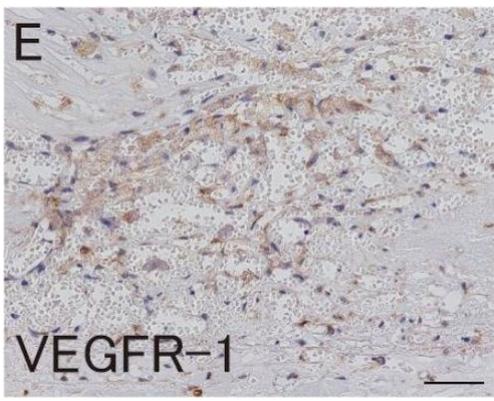
**Sequence similarities** Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.  
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.  
Contains 1 protein kinase domain.

**Cellular localization** Secreted and Cell membrane.

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## Images

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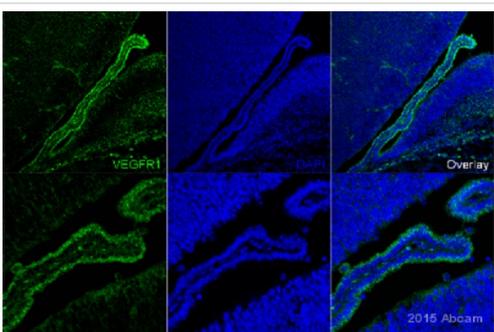


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

Image from Sano, Metal., PLoS ONE. 2014 Mar 20; 9(3). Fig 2E. DOI 10.1371/journal.pone.0089830. Lymphangiogenesis and Angiogenesis in Abdominal Aortic Aneurysm., e89830.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human abdominal aortic aneurysm (AAA) wall tissue sections labeling VEGF Receptor 1 with ab32152 at 1/100 dilution.

Resected aortic tissues were immersed in 10% neutral buffered formalin for at least 24 h for immunohistochemical staining. Tissue sample was embedded in paraffin; 4  $\mu$ m sections were cut and mounted onto MAS-coated slides. The sections were deparaffinized, dehydrated, and boiled in a pressure cooker in 0.01 M citric acid buffer (pH 6.0) for 20 min. The sections were washed with phosphate-buffered saline and incubated with 3% H<sub>2</sub>O<sub>2</sub> in absolute methanol for 5 min to inhibit any endogenous peroxidase activity. Sections were preincubated with 3% normal goat serum for 20 min to minimize nonspecific binding to VEGF Receptor 1, and incubated with ab32152 at 4°C overnight in a moist chamber. The section was washed with phosphate-buffered saline and then incubated with the appropriate secondary antibody for 30 min at room temperature. Staining was visualized with Vector DAB, and tissue section was then counterstained with hematoxylin.

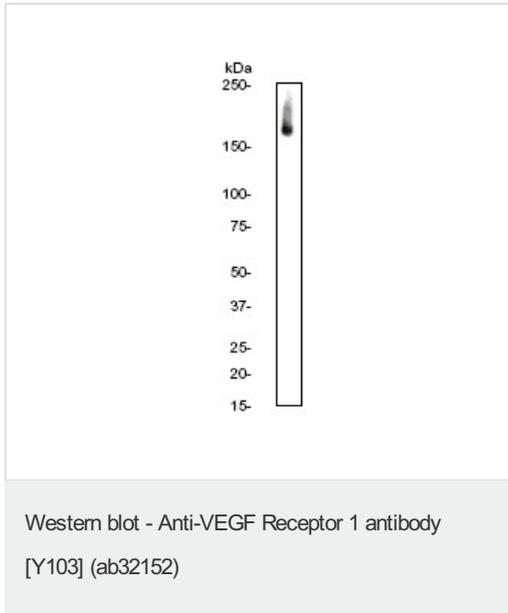


Immunohistochemistry (Frozen sections) - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

This image is courtesy of an anonymous abreview.

Immunohistochemistry (PFA perfusion fixed frozen sections) analysis of mouse brain tissue section (15 days old wild-type mouse embryonic brain, 16 micron) labeling VEGF Receptor 1 with ab32152 at 1/300 dilution.

Tissue was fixed with formaldehyde and permeabilized with Triton X-100. Heat mediated antigen retrieval was performed using 10mM citrate buffer, pH 6. A polyclonal donkey anti-Rabbit IgG (H+L) (Alexa Fluor<sup>®</sup> 488) secondary antibody was used at 1/500 dilution.



Anti-VEGF Receptor 1 antibody [Y103] (ab32152) at 1/10000 dilution + mouse brain tissue

**Predicted band size:** 151 kDa

**Observed band size:** 180 kDa

[why is the actual band size different from the predicted?](#)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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