

### Anti-VEGF Receptor 1 antibody [Y103] ab32152

**重组** RabMAb

★★★★★ **21 Abreviews** **276 References** **6 图像**

#### 概述

产品名称	Anti-VEGF Receptor 1抗体[Y103]
描述	兔单克隆抗体[Y103] to VEGF Receptor 1
宿主	Rabbit
特异性	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.
经测试应用	<b>适用于:</b> WB, IHC-P, IP <b>不适用于:</b> Flow Cyt or ICC/IF
种属反应性	<b>与反应:</b> Mouse, Rat, Human, Chinese hamster
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human and mouse brain tissue; IHC-P: Human gastric carcinoma tissue; IHC-Fr: Mouse brain tissue; IP: Mouse brain lysate.
常规说明	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 <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> .

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号	Y103
同种型	IgG

## 应用

**The Abpromise guarantee**      **Abpromise™**承诺保证使用ab32152于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

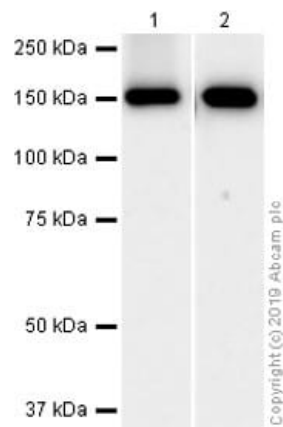
应用	Ab评论	说明
WB	★★★★★ (10)	1/1000 - 1/5000. Predicted molecular weight: 151 kDa.
IHC-P	★★★★★ (6)	1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/30 - 1/100.

**应用说明** Is unsuitable for Flow Cyt or ICC/IF.

## 靶标

功能	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.
组织特异性	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.
序列相似性	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.
细胞定位	Secreted and Cell membrane.

图片



Western blot - Anti-VEGF Receptor 1 antibody  
[Y103] (ab32152)

**All lanes :** Anti-VEGF Receptor 1 antibody [Y103] (ab32152) at 1/1000 dilution

**Lane 1 :** Mouse brain lysates

**Lane 2 :** Human brain lysates

Lysates/proteins at 15 µg per lane.

#### Secondary

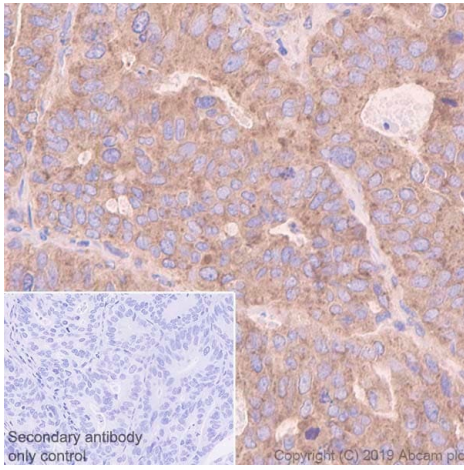
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 151 kDa

**Observed band size:** 180 kDa

**Exposure time:** 40 seconds

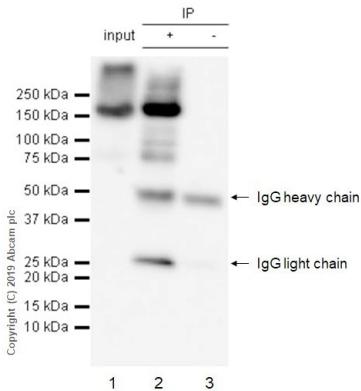
Blocking/Diluting buffer and concentration: 5% NFDM/TBST.



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

Immunohistochemical analysis of paraffin-embedded Human gastric carcinoma tissue labeling VEGF with ab32152, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining on human gastric carcinoma. Counterstained with Hematoxylin. Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP).



Immunoprecipitation - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

VEGF Receptor 1 was immunoprecipitated from 0.35 mg mouse brain lysate 10µg with ab32152 at 1:30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab32152 1:1000 dilution (2 µg/ml). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1:1000 dilution.

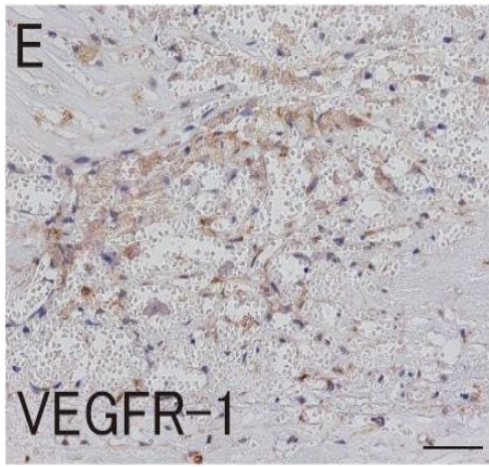
**Lane 1:** Mouse brain lysate 10µg.

**Lane 2:** ab32152 IP in mouse brain lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab32152 in mouse brain lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 1 second.

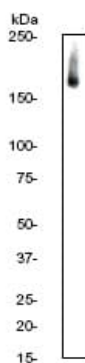


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

Image from Sano, Met al., 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.







Western blot - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

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 choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

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

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

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