

Anti-VEGF Receptor 1 antibody [Y103] - Low endotoxin, Azide free ab184784

重组 RabMAb

24 References [5 图像](#)

概述

产品名称	Anti-VEGF Receptor 1 抗体[Y103] - Low endotoxin, Azide free
描述	兔单克隆抗体[Y103] to VEGF Receptor 1 - Low endotoxin, Azide free
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	<p>适用于: IP, WB, IHC-P</p> <p>不适用于: Flow Cyt or ICC/IF</p>
种属反应性	与反应: Mouse, Rat, Human, Chinese hamster
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Mouse brain tissue, A431 cells, skin cancer.
常规说明	<p>ab184784 is the carrier-free version of ab32152.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	是
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 ab184784 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
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 180 kDa (predicted molecular weight: 151 kDa).
IHC-P		Use at an assay dependent concentration.

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.

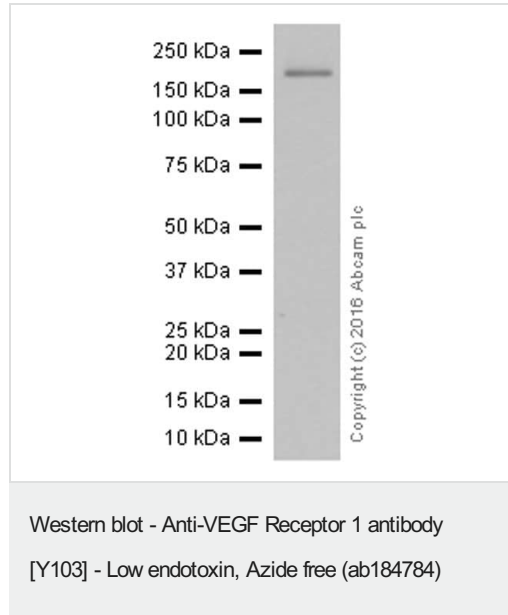
Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

细胞定位

Secreted and Cell membrane.

图片



Anti-VEGF Receptor 1 antibody [Y103] - Low endotoxin, Azide free (ab184784) + Mouse brain lysate at 15 µg

Secondary

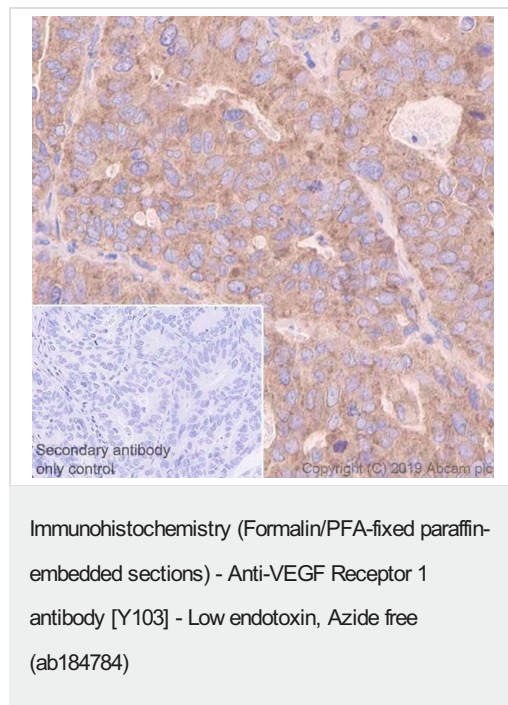
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#))

Predicted band size: 151 kDa

Exposure time: 8 seconds

Blocking buffer and concentration: 5% NFDM/TBST

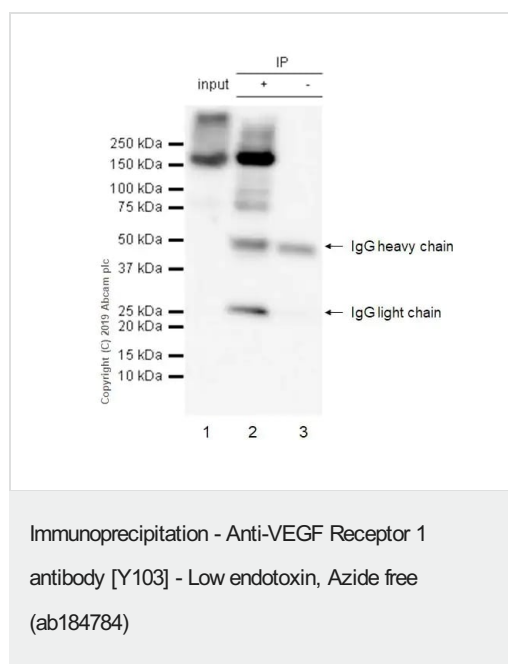
Diluting buffer and concentration: 5% NFDM/TBST



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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([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.

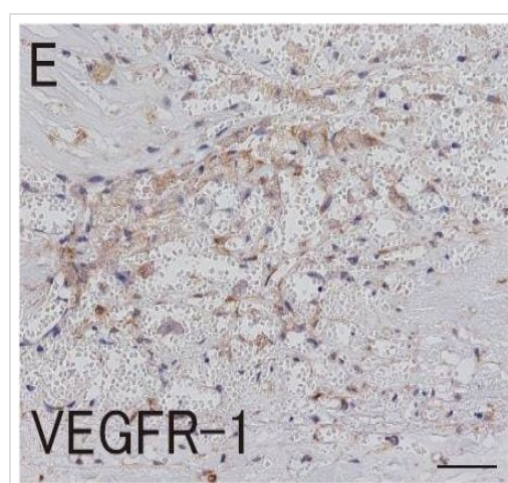
Lane 2: **ab32152** IP in mouse brain lysate.

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab32152**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGF Receptor 1 antibody [Y103] - Low endotoxin, Azide free (ab184784)

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 µm 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% H₂O₂ 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and

sodium azide (**ab32152**).

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-VEGF Receptor 1 antibody [Y103] - Low endotoxin, Azide free (ab184784)

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

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