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Product datasheet

Anti-VEGF Receptor 1 antibody [Y103] ab32152

リコンビナント RabMAb

★★★★★ 21 Abreviews 276 References 画像数 6

製品の概要

製品名	Anti-VEGF Receptor 1 antibody [Y103]
製品の詳細	Rabbit monoclonal [Y103] to VEGF Receptor 1
由来種	Rabbit
特異性	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.
アプリケーション	**適用あり:** WB, IHC-P, IP **適用なし:** Flow Cyt or ICC/IF
種交差性	**交差種:** Mouse, Rat, Human, Chinese hamster
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human and mouse brain tissue; IHC-P: Human gastric carcinoma tissue; IHC-Fr: Mouse brain tissue; IP: Mouse brain lysate.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	Y103
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab32152の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

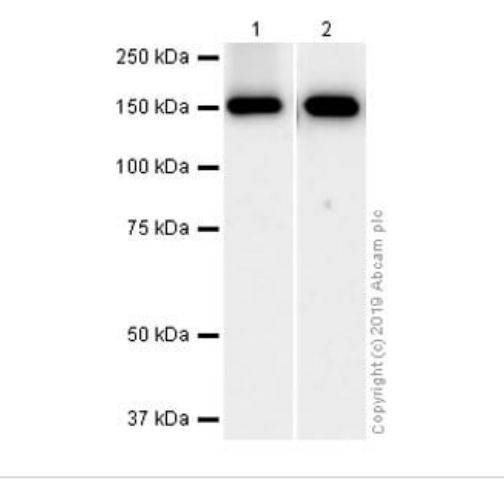
アプリケーション	Abreviews	特記事項
WB	★★★★★ (10)	1/1000 - 1/5000. Predicted molecular weight: 151 kDa.
IHC-P	★★★★★ (6)	1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		1/30 - 1/100.

追加情報 Is unsuitable for Flow Cyt or ICC/IF.

ターゲット情報

機能	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.
組織特異性	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.
配列類似性	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.
細胞内局在	Secreted and Cell membrane.

画像



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

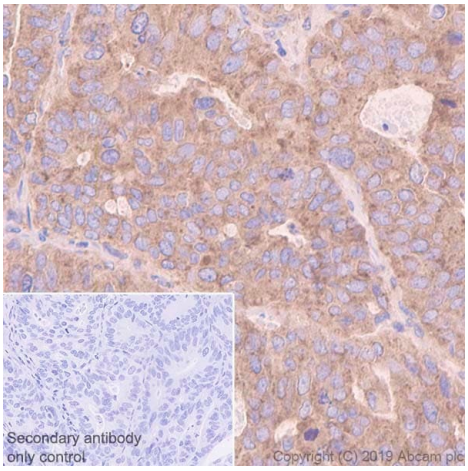
Lysates/proteins at 15 µg per lane.

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

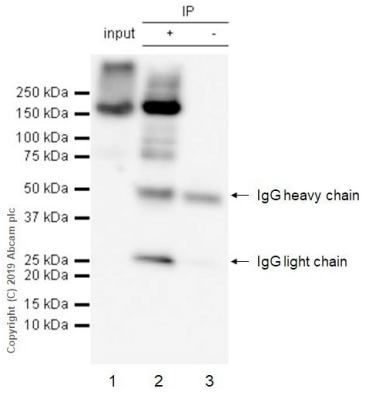
Blocking/Diluting buffer and concentration: 5% NFDM/TBST.



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.

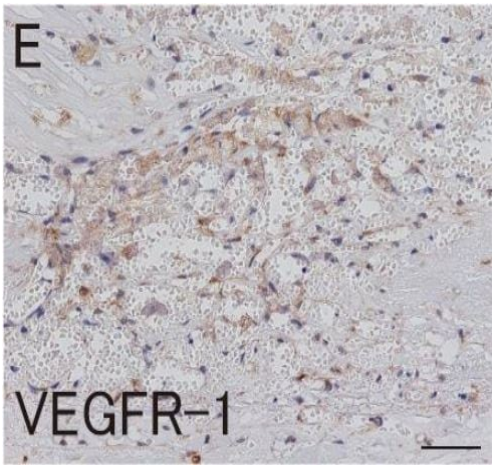
Lane 1: Mouse brain lysate 10µg.

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.

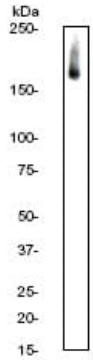


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VEGF Receptor 1 antibody [Y103] (ab32152)

Image from Sano, M et 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.

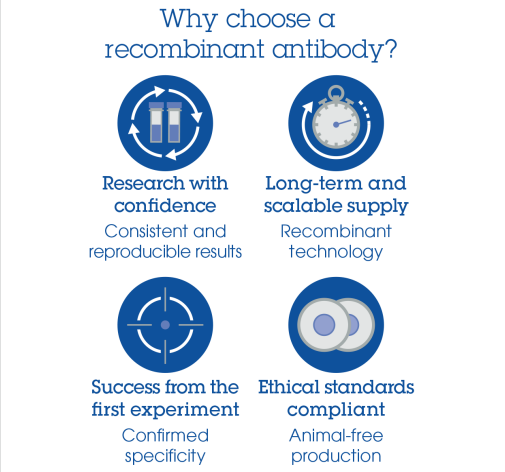
Resected aortic tissues were immersed in 10% neutral buffered formalin for at least 24 h for immunohistochemical staining. Tissue sample was embedded in paraffin; 4 µm sections were cut and mounted onto MAS-coated slides. The sections were deparaffinized, dehydrated, and boiled in a pressure cooker in 0.01 M citric acid buffer (pH 6.0) for 20 min. The sections were washed with phosphate-buffered saline and incubated with 3% H_2O_2 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



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

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