


Anti-VEGF Receptor 2 (phospho Y1054 + Y1059) antibody ab5473

★★★★★ [10 Abreviews](#) [36 References](#) [画像数 2](#)

製品の概要

製品名	Anti-VEGF Receptor 2 (phospho Y1054 + Y1059) antibody
製品の詳細	Rabbit polyclonal to VEGF Receptor 2 (phospho Y1054 + Y1059)
由来種	Rabbit
アプリケーション	適用あり: ICC, WB
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human VEGF Receptor 2 (phospho Y1054 + Y1059).
ポジティブ・コントロール	ICC: VEGF treated HUVEC whole cells. WB: VEGF treated HUVEC, MDA-MB-231 and MCF7 whole cell extract.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA, 50% Glycerol
精製度	Immunogen affinity purified
特記事項 (精製)	<p>The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated VEGFR 2.</p> <p>The final product is generated by affinity chromatography using a VEGFR 2 derived peptide that</p>

is phosphorylated at Tyrosines 1054 and 1059.

ポリ/モノ

ポリクローナル

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ab5473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
ICC		1/250.
WB	★★★★★ (1)	1/1000. Detects a band of approximately 150 kDa.

ターゲット情報

機能

Receptor for VEGF or VEGFC. 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. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions.

関連疾患

Defects in KDR are associated with susceptibility to hemangioma capillary infantile (HCI) [MIM:602089]. HCI are benign, highly proliferative lesions involving aberrant localized growth of capillary endothelium. They are the most common tumor of infancy, occurring in up to 10% of all births. Hemangiomas tend to appear shortly after birth and show rapid neonatal growth for up to 12 months characterized by endothelial hypercellularity and increased numbers of mast cells. This phase is followed by slow involution at a rate of about 10% per year and replacement by fibrofatty stroma.

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.

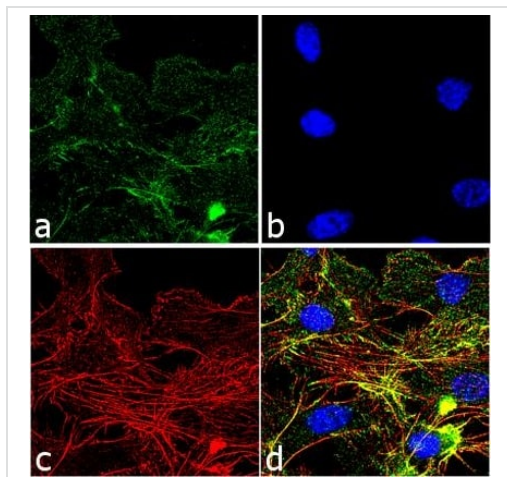
翻訳後修飾

Phosphorylated. Dephosphorylated by PTPRB. Dephosphorylated by PTPRJ at Tyr-951, Tyr-996, Tyr-1054, Tyr-1059, Tyr-1175 and Tyr-1214.

細胞内局在

Membrane.

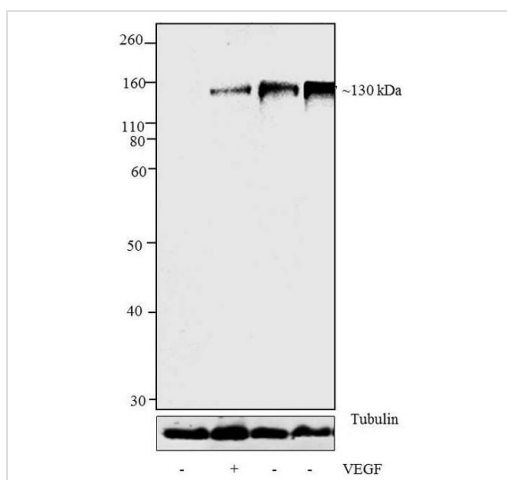
画像



Immunocytochemistry - Anti-VEGF Receptor 2 (phospho Y1054 + Y1059) antibody (ab5473)

Immunofluorescence analysis of HUVEC cells labelling VEGF Receptor 2 (phospho Y1054 + Y1059) (Panel a: green) using ab5473 at 2 ug/ml in 0.1% BSA for 3 hours at room temperature, followed by Alexa Fluor® 488-conjugated Goat anti-rabbit IgG polyclonal at 1/2000 dilution. Panel b: Nuclei stained with DAPI (blue), Panel c: F-actin stained with Alexa Fluor® 555 Rhodamine Phalloidin (red), Panel d: Merged images. The images were captured at 60X magnification.

Prior antibody incubation, HUVEC (Human umbilical vein endothelial cell line) cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes and blocked with 1% BSA for 1 hour at room temperature, followed by treatment with 100 ng of VEGF for 30 minutes. Assay was done on 90% confluent log phase HUVEC cells.



Western blot - Anti-VEGF Receptor 2 (phospho Y1054 + Y1059) antibody (ab5473)

All lanes : Anti-VEGF Receptor 2 (phospho Y1054 + Y1059) antibody (ab5473) at 1/1000 dilution

Lane 1 : HUVEC (Human umbilical vein endothelial cell line) whole cell extract with Skimmed milk

Lane 2 : HUVEC cells treated with 25ng/ml VEGF for 5 minutes with Skimmed milk

Lane 3 : MDA-MB-231 (human breast adenocarcinoma cell line) whole cell extract with Skimmed milk

Lane 4 : MCF7 (human breast adenocarcinoma cell line) whole cell extract with Skimmed milk

Lysates/proteins at 30 µg per lane.

Blocking peptides at 5 % per lane.

Secondary

All lanes : Goat anti-rabbit IgG HRP conjugate at 1/5000 dilution

A 150 kDa band corresponding to VEGFR (pYpY1054/1059) was

observed across cell lines tested.

Protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel, XCell SureLock™ Electrophoresis System and Novex® Sharp Pre-Stained Protein Standard.

Resolved proteins were then transferred onto a nitrocellulose membrane by over night wet transfer.

Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate.

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