


# Anti-VEGF Receptor 2 (phospho Y1214) antibody ab5475

**11 References** [画像数 2](#)

### 製品の概要

製品名	Anti-VEGF Receptor 2 (phospho Y1214) antibody
製品の詳細	Rabbit polyclonal to VEGF Receptor 2 (phospho Y1214)
由来種	Rabbit
特異性	VEGFR3 has not been tested, but is expected to react.
アプリケーション	<b>適用あり:</b> WB
種交差性	<b>交差種:</b> Human, Recombinant fragment <b>交差が予測される動物種:</b> Rat 
免疫原	Synthetic peptide corresponding to Human VEGF Receptor 2 (phospho Y1214).
ポジティブ・コントロール	WB: NIH 3T3 cells transfected with full length, wild-type human VEGFR 2 and Porcine Aortic Endothelial cells transfected with a chimeric receptor consisting of the extracellular domain of the CSF 1 receptor coupled to the transmembrane and cytoplasmic domains of the mouse VEGFR 2. HT-29 Serum Starved followed by treatment for 10 minutes with 100 ng/mL of SCF, Caco-2 Serum Starved followed by treatment for 10 minutes with 100 ng/mL of SCF.
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&amp;As</p>

### 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 or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	<p>pH: 7.3</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: PBS, 0.1% BSA</p> <p>BSA is IgG and protease free</p>

精製度	Immunogen affinity purified
特記事項 (精製)	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 protein. The final product is generated by affinity chromatography using a VEGFR 2 derived peptide that is phosphorylated at Tyrosine 1214.
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

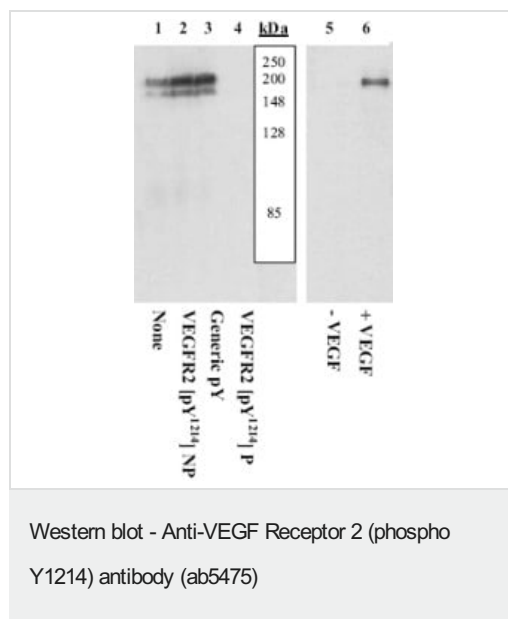
**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab5475の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use a concentration of 0.35 - 1 µg/ml. Detects a band of approximately 200 kDa.

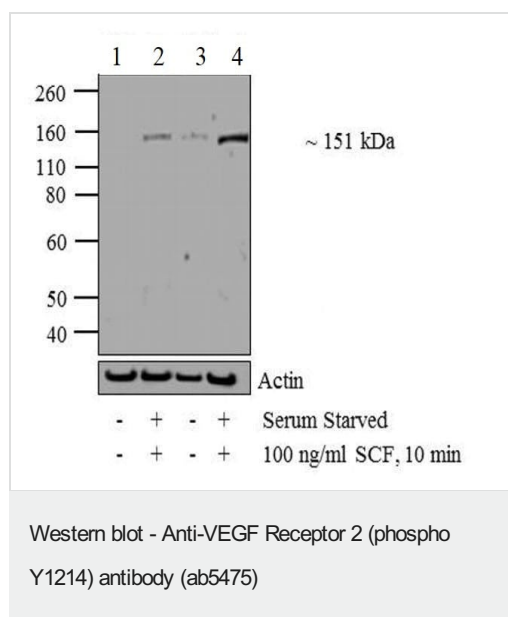
## ターゲット情報

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



**Peptide Competition and Stimulation:** Extracts prepared from CSF-1 stimulated (1-4, 6) or unstimulated (5) PAE cells transfected with a chimeric CSF-1/VEGFR2 receptor were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 5% BSA-TBST buffer overnight at 4°C, then were incubated with 0.50 µg/mL ab5475 antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 5, 6), the nonphosphopeptide corresponding to the immunogen (2), a generic phosphotyrosine containing peptide (3), or, the phosphopeptide immunogen (4). After washing, membranes were incubated with goat F(ab')<sub>2</sub> anti-rabbit IgG alkaline phosphatase and bands were detected using the Tropix WesternStar method. The data show that only the peptide corresponding to ab5475 blocks the antibody signal, and the stimulation of the phospho signal after stimulating ligand is added (CSF-1 for the chimeric r



**All lanes :** Anti-VEGF Receptor 2 (phospho Y1214) antibody (ab5475) at 1/1000 dilution

**Lane 1 :** HT-29 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 2 :** HT-29 Serum Starved followed by treatment for 10 minutes with 100 ng/mL of SCF

**Lane 3 :** Caco-2 (Human colorectal adenocarcinoma cell line) whole cell lysate

**Lane 4 :** Caco-2 Serum Starved followed by treatment for 10 minutes with 100 ng/mL of SCF

Lysates/proteins at 30 µg per lane.

### Secondary

**All lanes :** Goat anti-Rabbit IgG (H+L) Secondary Antibody, HRP conjugate at 1/5000 dilution

**Observed band size:** ~151 kDa

Modulation of expression of target protein by cell treatment to

demonstrate antibody specificity.

The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk.

Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate

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