


# Anti-VEGF Receptor 2 (phospho Y951) antibody ab110213

2 Images

Overview

Product name	Anti-VEGF Receptor 2 (phospho Y951) antibody
Description	Rabbit polyclonal to VEGF Receptor 2 (phospho Y951)
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	<b>Suitable for:</b> WB, ELISA
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee, Macaque monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in A431 EGF Treated whole cell lysate.
General notes	<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>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising

agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

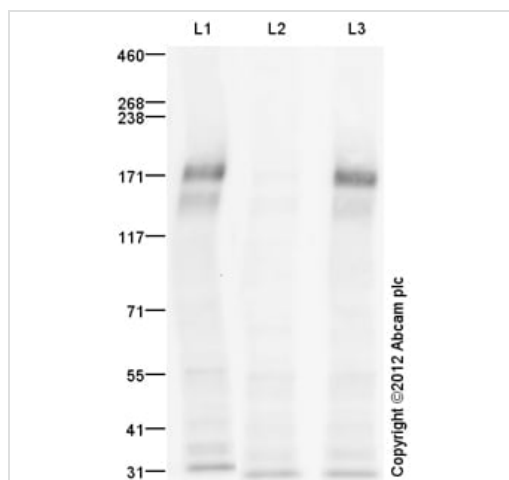
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab110213 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		Use a concentration of 1 µg/ml. Detects a band of approximately 175 kDa (predicted molecular weight: 151 kDa).
<b>ELISA</b>		Use at an assay dependent concentration.

## Target

<b>Function</b>	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.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	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.
<b>Post-translational modifications</b>	Phosphorylated. Dephosphorylated by PTPRB. Dephosphorylated by PTPRJ at Tyr-951, Tyr-996, Tyr-1054, Tyr-1059, Tyr-1175 and Tyr-1214.
<b>Cellular localization</b>	Membrane.

## Images



Western blot - Anti-VEGF Receptor 2 (phospho Y951) antibody (ab110213)

**All lanes :** Anti-VEGF Receptor 2 (phospho Y951) antibody (ab110213) at 1 µg/ml

**Lane 1 :** EGF-Stimulated A431 Whole Cell Lysate

**Lane 2 :** EGF-Stimulated A431 Whole Cell Lysate with Immunising peptide at 1 µg/ml

**Lane 3 :** EGF-Stimulated A431 Whole Cell Lysate with Control peptide at 1 µg/ml

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

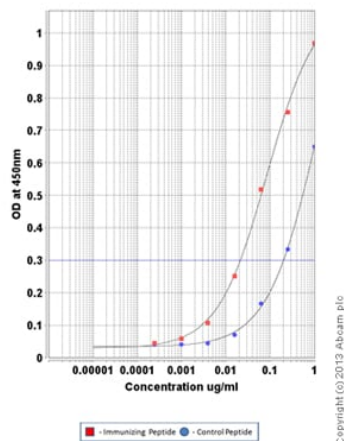
**Predicted band size:** 151 kDa

**Observed band size:** 151,175 kDa

**Additional bands at:** 30 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 8 minutes

VEGF Receptor 2 contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.



ELISA - Anti-VEGF Receptor 2 (phospho Y951)  
antibody (ab110213)

ab110213 was tested using an Indirect ELISA approach. The wells were coated with peptide (1 µg/ml at 100 µl/well) overnight at 4°C, followed by a 5% BSA blocking step for 1 hour at room temperature. The primary Ab was then added at a dilution range of 1- 0.00025 µg/ml (100 µl/well) for 1 hr at room temperature. A HRP-conjugated anti-rabbit IgG (heavy and light chain) was used as a secondary antibody at 1:20,000 dilution for 1 hr at room temperature.

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

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