

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human VEGF in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant mouse VEGF <sub>165</sub> and recombinant rat VEGF <sub>164</sub> is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human VEGF <sub>165</sub> Ala27-Arg191 Accession # NP_001165097.1
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

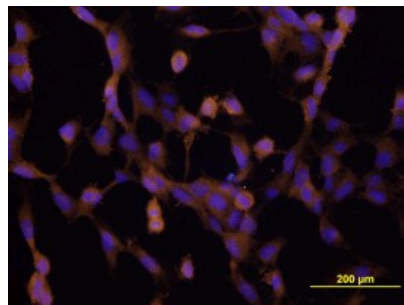
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human VEGF <sub>165</sub> (Catalog # 293-VE)
<b>Immunocytochemistry</b>	5-15 µg/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize VEGF <sub>165</sub> -induced proliferation in HUVEC human umbilical vein endothelial cells. Conn, G. <i>et al.</i> (1990) Proc. Natl. Acad. Sci. USA <b>87</b> :1323. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.02-0.12 µg/mL in the presence of 10 ng/mL Recombinant Human VEGF <sub>165</sub> .	

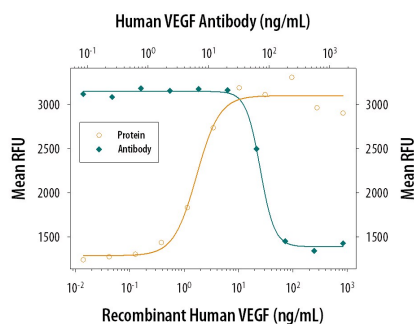
## DATA

### Immunocytochemistry



**VEGF in HUVEC Cells.** VEGF was detected in immersion fixed human umbilical vein endothelial cells (HUVECs) using Human VEGF 165 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-293-NA) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (yellow; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

### Neutralization



**Cell Proliferation Induced by VEGF<sub>165</sub> and Neutralization by Human VEGF Antibody.** Recombinant Human VEGF<sub>165</sub> (Catalog # 293-VE) stimulates proliferation in HUVEC human umbilical vein endothelial cells in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human VEGF<sub>165</sub> (10 ng/mL) is neutralized (green line) by increasing concentrations of Human VEGF 165 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-293-NA). The ND<sub>50</sub> is typically 0.02-0.12 µg/mL.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month from date of receipt, 2 to 8 °C, reconstituted.</li> <li>● 6 months from date of receipt, -20 to -70 °C, reconstituted.</li> </ul>