

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human VEGF in direct ELISAs and Western blots. In direct ELISAs, approximately 100% cross-reactivity with recombinant canine VEGF is observed, and less than 20% cross-reactivity with recombinant mouse VEGF ₁₆₅ and recombinant rat VEGF ₁₆₄ is observed, and less than 5% cross-reactivity with recombinant zebrafish VEGF is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human VEGF ₁₆₅ Ala27-Arg191 Accession # NP_001165097.1
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

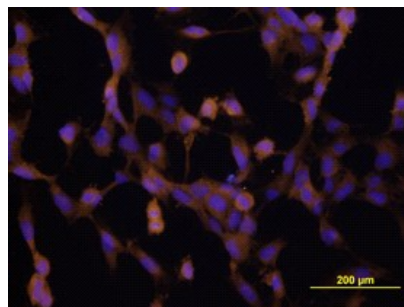
APPLICATIONS

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

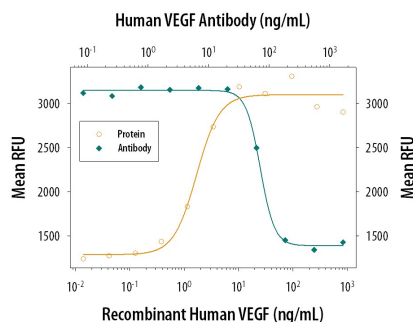
DATA

Immunocytochemistry



VEGF in HUVEC Cells. VEGF was detected in immersion fixed human umbilical vein endothelial cells (HUVECs) using Goat Anti-Human VEGF₁₆₅ 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 counter-stained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Neutralization



Cell Proliferation Induced by VEGF₁₆₅ and Neutralization by Human VEGF Antibody. Recombinant Human VEGF₁₆₅ (Catalog # 293-VE) stimulates proliferation in HUVEC human umbilical vein endothelial cells in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human VEGF₁₆₅ (10 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Human VEGF₁₆₅ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-293-NA). The ND₅₀ is typically 0.02-0.12 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.