

DESCRIPTION

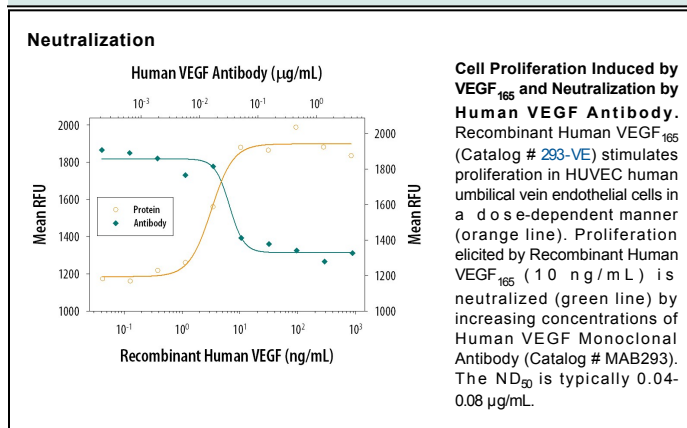
Species Reactivity	Human
Specificity	Detects human VEGF ₁₆₅ and human VEGF ₁₂₁ in ELISAs and Western blots. In ELISAs, this antibody shows approximately 10% cross-reactivity with recombinant mouse (rm) VEGF and rrVEGF and no cross-reactivity with rhVEGF-D.
Source	Monoclonal Mouse IgG _{2B} Clone # 26503
Purification	Protein A or G purified from hybridoma culture supernatant
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	1 µg/mL	Recombinant Human VEGF ₁₆₅ (Catalog # 293-VE) under non-reducing conditions only
Immunohistochemistry	8-25 µg/mL	Immersion fixed paraffin-embedded sections of human breast duct cancer tissue
Human VEGF Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human VEGF Antibody (Catalog # MAB293)
ELISA Detection	0.1-0.4 µg/mL	Human VEGF ₁₆₅ Biotinylated Antibody (Catalog # BAF293)
Standard		Recombinant Human VEGF ₁₆₅ (Catalog # 293-VE)
Neutralization		Measured by its ability to neutralize VEGF ₁₆₅ -induced proliferation in HUVEC human umbilical vein endothelial cells. The Neutralization Dose (ND ₅₀) is typically 0.04-0.08 µg/mL in the presence of 10 ng/mL Recombinant Human VEGF ₁₆₅ .

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.

BACKGROUND

VEGF is a soluble protein secreted by a wide variety of cell types. It binds to the receptor tyrosine kinases VEGF R1 (Fit-1) and VEGF R2 (Flk-1). VEGF stimulates vascular endothelial cell proliferation and is a potent inducer of angiogenesis. Several VEGF isoforms occur resulting from alternative mRNA splicing.