Human/Primate VEGF Antibody

Monoclonal Mouse IgG_{2B} Clone # 26503

Catalog Number: MAB293

DESCRIPTION

Species Reactivity	Human/Primate
Specificity	Detects human $VEGF_{165}$ and human $VEGF_{121}$ in ELISAs and Western blots. In ELISAs, approximately 10% cross-reactivity with recombinant mouse (rm) VEGF and recombinant rat (rr)VEGF and no cross-reactivity with recombinant human (rh) VEGF-D is obseved.
Source	Monoclonal Mouse IgG_{2B} Clone # 26503
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*S. frugiperda* 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.

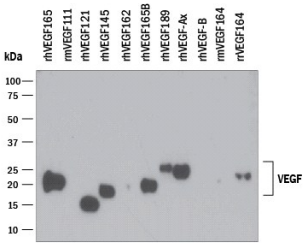
APPLICATIONS

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	See Below
Human/Primate VEGF Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human/Primate VEGF Antibody (Catalog # MAB293)
ELISA Detection	0.1-0.4 µg/mL	Human/Primate $VEGF_{165}$ 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 10-60 ng/mL in the presence of 10 ng/mL Recombinant Human $VEGF_{165}$.	

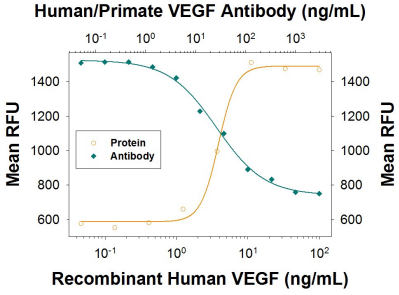
DATA

Western Blot



Detection of Recombinant Human VEGF by Western Blot. Western blot shows 25 ng of Recombinant Human $VEGF_{165}$ (Catalog # 293-VE), Recombinant Human $VEGF_{111}$ (Catalog # 5336-VE), Recombinant Human $VEGF_{121}$, aa 207-327 (Catalog # 4644-VS), Recombinant Human $VEGF_{145}$ (aa 27-171) (Catalog # 7626-VE), Recombinant Human $VEGF_{162}$ (Catalog # 2347-VE), Recombinant Human $VEGF_{165b}$ (Catalog # 3045-VE), Recombinant Human $VEGF_{189}$ (aa 27-215) (Catalog # 8147-VE), Recombinant Human $VEGF_{165}$ Extended Isoform (Catalog # 9018-VE), Recombinant Human $VEGF\text{-}B_{167}$ (Catalog # 751-VE), Recombinant Mouse $VEGF_{164}$ (Catalog # 493-MV), and Recombinant Rat $VEGF_{164}$ (Catalog # 564-RV). PVDF Membrane was probed with 0.1 µg/mL of Mouse Anti-Human/Primate VEGF Monoclonal Antibody (Catalog # MAB293) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for VEGF at approximately 15-25 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

Neutralization



Cell Proliferation Induced by $VEGF_{165}$ and Neutralization by Human VEGF Antibody. Recombinant Human $VEGF_{165}$ (Catalog # 293-VE) stimulates proliferation in HUVEC human umbilical vein endothelial cells in a dose-dependent manner (orange line) as measured by Resazurin (Catalog # AR002). Proliferation elicited by Recombinant Human $VEGF_{165}$ (10 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human/Primate VEGF Monoclonal Antibody (Catalog # MAB293). The ND_{50} is typically 10-60 ng/mL.

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.** ● 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.

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BACKGROUND

VEGF is a soluble protein secreted by a wide variety of cell types. It binds to the receptor tyrosine kinases VEGF R1 (Flt-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.

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