

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse VEGF ₁₆₄ in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody shows 25-100% cross-reactivity with recombinant human VEGF ₁₆₅ and recombinant rat VEGF ₁₆₄ and no cross-reactivity with recombinant mouse (rm) VEGF ₁₁₅ , rmVEGF ₁₂₀ , rmVEGF-B, rhVEGF-C, or rmVEGF-D. Cross-reactivity with rmVEGF ₁₈₈ was not determined.
Source	Monoclonal Rat IgG _{2A} Clone # 156902
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse VEGF ₁₆₄ Ala27-Arg190 Accession # AAA40547
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 Mouse VEGF ₁₆₄ (Catalog # 493-MV) under non-reducing conditions only

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

VEGF₁₆₄ is a splice variant of VEGF with an internal deletion of 25 amino acids. It is a soluble protein secreted by a wide variety of cell types and binds to the receptor tyrosine kinases VEGF R1 and VEGF R2. VEGF stimulates vascular endothelial cell proliferation and is a potent inducer of angiogenesis.