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**Antibody to Vascular Endothelial Growth Factor
MOUSE MONOCLONAL**

Catalog Number: AB-550
Quantity: 500 micrograms
Format: Lyophilized
Host: Mouse
Isotype: IgM
Clone: NYRhVEGF
Immunogen: r.HumanVEGF

Background:

Vascular endothelial growth factor is an important signaling protein involved in both vasculogenesis and angiogenesis. As its name implies, VEGF activity has been mostly studied on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g. stimulation of monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells). VEGF mediates increased vascular permeability, induces angiogenesis, vasculogenesis and endothelial cell growth, promotes cell migration, and inhibits apoptosis. *In vitro*, VEGF has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy.

Specificity and Preparation:

Mouse anti-human vascular endothelial growth factor (VEGF) is purified by boric acid precipitation. Protein concentration is 1 mg/ml in PBS (after reconstitution).

Usage and Storage:

Reported to be effective for direct ELISA, western blot, immunoprecipitation, and intracellular staining. Titer: in direct ELISA, using alkaline phosphatase goat anti-mouse Ig (Jackson Laboratories) 1:10,000 dilution will yield 0.7 O.D within 10 minutes. This antibody will bind very well to protein A in a buffer (PBS) containing high salt concentration (3M NaCl).

Reconstitute with sterile H₂O. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. Store lyophilized material at 4°C in a dry environment. After reconstitution, if not intended for use within a month, aliquot and store at -20°C. Material is stable for two years lyophilized, one month in solution at 4°C.

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