IBL *Data Sheet*

Code No. 11085

Anti-Human
VEGF (N5) Mouse IgG MoAb

Volume.   **:**   200 μg

Introduction	**:**	Vascular Endothelial Cell Growth Factor (VEGF) is a homodimeric protein initially purified from media conditioned by normal bovine pituitary folliculo-stellate cells and secreted by a variety of vascularized tissues. It was subsequently found to be identical to a vascular permeability factor (VPF), which was previously identified in media conditioned by tumor cell lines based upon its ability to increase the permeability of capillary blood vessels. The reported activities of VEGF include stimulation of endothelial cell growth, angiogenesis and capillary permeability. Human VEGF is a 38.2kDa homodimeric protein consisting of two 165 amino acid polypeptide chains. VEGF is expressed in many human tumor cells, including human adenocarcinoma, human pancreatic carcinoma, human hepatocellular carcinoma, renal cell carcinoma, fibrosarcoma, HL60 promyelocytic leukemia, GS-9L glioma and U937 lymphoma cells. In normal tissues, VEGF expression has been observed in activated macrophages, keratinocytes, hepatocytes, smooth muscle cells Leydig cells, embryonic fibroblasts and bronchial and choroids plexus epithelium, renal glomerular visceral epithelium and mesangial cells.
Antigen	**:**	Recombinant Human VEGF (*E. coli*)
Source	**:**	Mouse-Mouse hybridoma (supernatant) (X63 – Ag 8.653 × BALB/c mouse spleen cells)
Clone	**:**	N5 **Subclass** **:** IgG_{2b}
Purification	**:**	Affinity purified with protein A
Form	**:**	Lyophilized product from 1% BSA in PBS containing 0.05% NaN_3
How to use	**:**	1.0 mL deionized water will be added to the product, then its concentration comes to 200 μg/mL.
Stability	**:**	Lyophilized product, 5 years at 2 – 8 °C
	:	Solution, 2 years at –20 °C
Application	**:**	This antibody can be use in immunohistochemistry with formalin fixed paraffin embedded tissuesby several techniques such as Avidin Biotin Complex (ABC) Method. The optimal dilution is 4 - 6 μg/mL, however, the dilution rate should be optimized by each laboratories.

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