IBL Data Sheet

Code No. 18413

Anti-Human
VEGF (V-3) Rabbit IgG Affinity Purify

Volume : 100 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 38.2 kDa homodimeric protein consists 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 : Synthetic peptide of a part of Human VEGF

Purification : Affinity purified with antigen peptide

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used in immunohistochemistry with formalin fixed paraffin embedded tissues after trypsin treatment. The recommended concentration is 2-5 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2-5 µg/mL.

Specificity : Reacts with human, rat and mouse
Does not react with human $VEGF_{121}$

Reference : Fan L, Iseki S. Immunohistochemical localization of vascular endothelial growth factor in the endocrine glands of the rat. Arch Histol Cytol. 1998 Mar;61(1):17-28.

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