

VEGF Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50236

Clone# BP6213

Predicted Molecular Wt: 24kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P15692

Background:

Vascular Endothelial Growth Factor A (VEGF-A; formerly VEGF) belongs to the VEGF/PDGF family of growth factors that play a critical role in promoting vascular development. VEGF-A is primarily known for its function in promoting angiogenesis, the process by which new blood vessels are sprouted from pre-existing blood vessels. VEGF-A has eight isoforms, derived from differentially spliced mRNA variants encoded by the VEGF-A gene. All isoforms contain a conserved receptor binding domain, but differ in their C-terminal domains that regulate binding to components in the extracellular matrix. VEGF-A is secreted by multiple cell types, including fibroblasts, macrophages and some tumor cells. Binding of VEGF-A to its cognate receptors (VEGFR2 and to a lesser extent VEGFR1) on the endothelial cell surface activates the receptor and initiates downstream signaling, resulting in endothelial cell proliferation, survival, migration, and changes to vascular permeability, all crucial processes for angiogenesis.

Subcellular location:

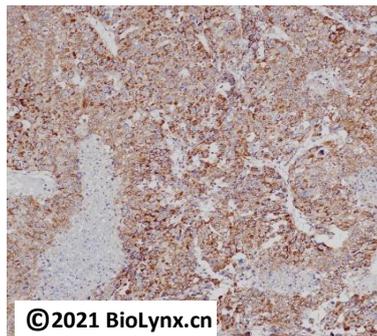
Cytoplasm

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Recombinant protein fragment of human VEGF.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver carcinoma tissue labelling VEGF with BP6213. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-25°C to -18°C

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Chaudhry IH, O'Donovan DG, et al. (2001) . Histopathology 91:409-415.
2. Boer K, Troost D, Spliet WGM, et al.(2008) . Acta Neuropathol 115: 683-696.

Product QC'd by:



For research use only. Not for use in diagnostic or therapeutic applications.