

PRODUCT DATA SHEET

Product: Anti-VEGF mAb, clone BFD31

Cat. No.: MC-421 (100 µg)

Background:

Vascular endothelial growth factor (VEGF) is a homodimeric, disulfide-linked glycoprotein involved in angiogenesis which promotes tumor progression and metastasis. It exhibits potent mitogenic and permeability inducing properties specific for the vascular endothelium. Of the four isoforms of VEGF, the smaller two (VEGF₁₆₅ and VEGF₁₂₁) are secreted proteins and act as diffusible agents, whereas the larger two (VEGF₁₈₉ and VEGF₂₀₆) remain cell associated.

Molecular Weight of Antigen:

19-22 kDa (reduced)

Species Reactivity:

Human. Other species not tested.

Ig Isotype:

Mouse IgG₁

Immunogen:

A synthetic peptide corresponding to aa 27-52 (APMAEGGGQNHHEVVKFMDVYQRSYC) from human VEGF protein.

Epitope:

aa 27-52

Cellular Localization:

Cytoplasmic, cell surface, and extracellular matrix

Positive Control:

VEGF₁₆₅ recombinant protein

Format:

0.5 mL of 200 µg/mL monoclonal antibody in 10 mM PBS, pH 7.4, with protein stabilizer and 0.09% sodium azide. Purified from ascites fluid by Protein G chromatography.

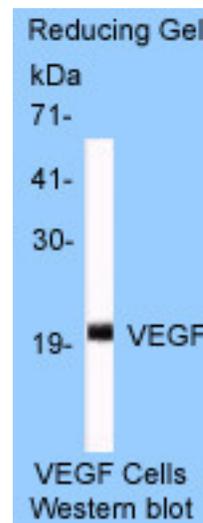
Storage:

Store at 4°C.

Applications and Suggested Dilutions:

- Immunohistochemistry (**Not suitable**)
- Western blot: Use at 1-2 µg/mL for 2 hrs. at room temperature (RT) under reduced conditions only.

The optimal dilution for a specific application should be determined by the researcher.



Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.