DATA SHEET

Vascular Endothelial Growth Factor (VEGF) Ab-7 (Clone VG1)

Mouse Monoclonal Antibody

Cat. #13348, 13347, or 13346 (0.1ml, 0.5ml, or 1.0ml at 200µg/ml) (Purified Ab with BSA and Azide)
Cat. #13349 or 13350 (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #13351 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)

Description: VEGF which 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, $VEGF_{165}$ and $VEGF_{121}$, are secreted proteins and act as diffusible agents, whereas the larger two ($VEGF_{189}$ and $VEGF_{206}$) remain cell associated.

Comments: Ab-7 recognizes 121, 165 and 189 isoforms of VEGF[1].

Mol. Wt. of Antigen: 19-22kDa (reduced)

Epitope: Not determined

Species Reactivity: Human. Others-not known.

Clone Designation: VG1

Ig Isotype / Light Chain: IgG_1 / κ

Immunogen: Recombinant $VEGF_{189}$ protein.

Applications and Suggested Dilutions:

- Western Blotting (Ab 1-2µg/ml for 2h at RT))
- Immunohistology[1,2] (formalin/paraffin)
  (Ab 2-4µg/ml for 30 min at RT)

* (Staining of formalin-fixed tissues REQUIRES boiling tissue sections in 1mM EDTA, pH 8.0), for 10-20 min followed by cooling at RT for 20 min.)

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

Positive Control: $VEGF_{165}$ recombinant protein. Astrocytoma or hemangiosarcoma.

Cellular Localization: Cytoplasmic, cell surface, and extracellular matrix.

Supplied As:

200µg/ml of antibody purified from ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml.

or

Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

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Storage and Stability:

Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Key References:

1. Turley H, et al. (1998) J. Pathol. 186: 313-318.
2. O'Byrne K J, et al. (2000) Br. J. Cancer. 82: 1427-1432.

Limitations and Warranty:

Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. Dianova is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:

This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead, brass, or solder in the plumbing systems. Sodium azide forms hydrazoic acid in acidic conditions and should be discarded in a large volume of running water to avoid deposits forming in metal drainage pipes.

For Research Use Only

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