

Anti-VEGF [VG76e]

Catalogue number: 151223

Sub-type: Primary antibody

Images:

Contributor

Inventor: Roy Bicknell

Institute: University of Oxford

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-VEGF [VG76e]

Alternate name:

CancerTools.org

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody with use investigating MVCD1, angiogenesis and various cancers.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1 kappa

Reactivity: Human ; Mouse ; Primate

Selectivity:

Host: Mouse

Immunogen: Human VEGF189 expressed in E. coli.

Immunogen UNIPROT ID: P15692

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: VEGF recombinant protein.

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Vascular Endothelial Growth Factor (VEGF)

Target alternate names:

Target background: VEGF is a 34-43 kD polypeptide growth factor, part of the PDGF family. There are 7 homo-dimeric isoforms (A-G) with VEGF 121, VEGF 165 and VEGF189 being the most extensively studied (F,D and B respectively). They are generated by alternative splicing and binding to VEGF receptors (FLT-1 and KDR) which are selectively expressed on vascular endothelial cells. VEGF elicits mitogenic effects on endothelial cells and is strongly angiogenic, with a role in cancer and metastasis. VEGF is involved in vasculogenesis and endothelial growth. VEGF expression is potentiated, and the protein is secreted by tumour cells in response to hypoxia, by activated oncogenes, growth factors, nitric oxide and a variety of cytokines. Defects in VEGFA are linked to MVCD1 (microvascular complications of diabetes type 1) and VEGF polymorphisms are associated with susceptibility to multiple cancers, e.g. glioma, HCC, ovarian, bladder, prostate, breast cancer etc. VEGF is an angiogenic growth factor and a prognostic indicator for cancer when detected in serum. This antibody binds VEGF-A.

Molecular weight: 38-44 kDa

Ic50:

Applications

Application: ELISA ; IHC ; WB

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Marshall et al. 1998. Br J Cancer. 77(4):522-9. PMID: 9484806. ; Comparative analysis of integrins in vitro and in vivo in uveal and cutaneous melanomas.