

Anti-VEGF [VG-1]

Catalogue number: 151258

Sub-type: Primary antibody

Images:

Contributor

Inventor: Helen Turley

Institute: University of Oxford

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-VEGF [VG-1]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody targeted at vascular endothelial growth factor (VEGF) is valuable for investigating VEGF and angiogenesis in pathological conditions particularly within cancer.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen: Recombinant VEGF Protein

Immunogen UNIPROT ID: P15692

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: Corpus luteum, VEGF165 recombinant protein, astrocytoma or hemoangiosarcoma.

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Vascular Endothelial Growth Factor (VEGF)

Target alternate names:

Target background: VG-1 monoclonal antibody is directed against vascular endothelial growth factor (VEGF) isoforms 121, 165 and 189. 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 bind 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. The 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. VEGF is an angiogenic growth factor and a prognostic indicator for cancer when detected in serum. VG-1 is useful for studies of VEGF and angiogenesis in human pathological material. Anti VG-1 was created to investigate the tissue distribution of VEGF in normal and pathological specimens with a stable and reliable reagent.

Molecular weight: 19-22 kDa

Ic50:

Applications

Application: ELISA ; IHC ; IF ; IP ; 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: Zhou et al. 2020. Nat Commun. 11(1):2639. PMID: 32457312. ; Kondrashova et al. 2017. Cancer Discov. 7(9):984-998. PMID: 28588062. ; Mason et al. 2014. Cancer Res. 74(13):3546-55. PMID: 24753542. ; Beck et al. 2014. Nucleic Acids Res. 42(9):5616-32. PMID: 24598253. ; Contributions of nucleotide excision repair, DNA polymerase eta, and homologous recombination to replication of UV-irradiated herpes simplex virus type 1. ; Rad54B targeting to DNA double-strand break repair sites requires complex formation with S100A11.

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