

Datasheet: AHP831B

Description:	GOAT ANTI HUMAN VEGF:Biotin
Specificity:	VEGF
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - lyophilized
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% Bovine Serum Albumin. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage, the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antisera to human VEGF were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	None present

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 0.1 mg/ml after reconstitution.

Immunogen [Recombinant human VEGF](#)

External Database Links

UniProt:
[P15692](#) [Related reagents](#)

Entrez Gene:
[7422](#) VEGFA [Related reagents](#)

Synonyms VEGF

RRID AB_2212844

Specificity **Goat anti Human VEGF antibody** recognizes human VEGF (vascular endothelial growth factor), a heparin-binding cytokine and member of the PDGF/VEGF growth factor family, which exists as several splice variants of the VEGF gene. VEGF, originally named vascular permeability factor due to its ability to act as vasodilator and increase microvascular permeability, is a potent stimulator of angiogenesis of both normal and cancerous cells, and acts as a regulator of vasculogenesis.

The functional forms of VEGF exist as disulphide-linked homodimers and are classified according to the number of amino acid residues within a constitutive polypeptide chain e.g VEGF₁₆₅. All VEGF family members act through binding to the tyrosine kinase receptors VEGFR-1 (Flt-1) and VEGFR-2 (KDR/CD309), whilst the closely-related VEGF-C and VEGF-D, can also bind to VEGFR-3 (Flt-4).

ELISA This biotinylated human VEGF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our [purified human VEGF antibody](#) (AHP831) as the capture reagent and [recombinant human VEGF](#) (PHP091) as the standard.

Western Blotting This antibody may be used in Western Blotting under either reducing or non-reducing conditions with [recombinant human VEGF](#) (PHP091) as the positive control.

References

- Hjelmgren, O. *et al.* (2016) Increased Vascularization in the Vulnerable Upstream Regions of Both Early and Advanced Human Carotid Atherosclerosis. [PLoS One. 11 \(12\): e0166918.](#)
- Gamliel, M. *et al.* (2018) Trained Memory of Human Uterine NK Cells Enhances Their Function in Subsequent Pregnancies. [Immunity. 48 \(5\): 951-962.e5.](#)

Further Reading 1. Neufeld, G. *et al.* (1999) Vascular endothelial growth factor (VEGF) and its receptors. [FASEB J. 13: 9-22.](#)

Storage This product is shipped at ambient temperature.
Prior to reconstitution store at -20°C.
After reconstitution store at -20°C.

This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10294 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP831B>

Regulatory For research purposes only

Related Products

Recommended Positive Controls

[RECOMBINANT HUMAN VEGF \(PHP091\)](#)

Recommended Useful Reagents

[GOAT ANTI HUMAN VEGF \(AHP831\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M439233:250523'

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