

## Datasheet: AHP831

**BATCH NUMBER 165655**

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| <b>Description:</b>  | GOAT ANTI HUMAN VEGF |
| <b>Specificity:</b>  | VEGF                 |
| <b>Format:</b>       | Purified             |
| <b>Product Type:</b> | Polyclonal Antibody  |
| <b>Isotype:</b>      | Polyclonal IgG       |
| <b>Quantity:</b>     | 0.1 mg               |

## 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](http://www.bio-rad-antibodies.com/protocols).

|                                | Yes | No | Not Determined | Suggested Dilution |
|--------------------------------|-----|----|----------------|--------------------|
| Flow Cytometry                 |     |    | ■              |                    |
| Immunohistology - Frozen       |     |    | ■              |                    |
| Immunohistology - Paraffin (1) | ■   |    |                | 5.0 - 15.0ug/ml    |
| ELISA                          | ■   |    |                | 0.5 - 2.0ug/ml     |
| Immunoprecipitation            |     |    | ■              |                    |
| Western Blotting               | ■   |    |                | 0.1 - 0.2ug/ml     |
| Functional Assays              | ■   |    |                | 0.05 - 0.10ug/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.

**(1)Heat-mediated antigen retrieval is required prior to staining paraffin sections with this antibody. Citrate buffer, pH6.0, is recommended for this purpose.**

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| <b>Target Species</b>        | Human   |
| <b>Product Form</b>          | Purified IgG - lyophilized  |
| <b>Reconstitution</b>        | Reconstitute with 0.1ml distilled water. For long term storage, the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide. |
| <b>Antiserum Preparation</b> | Antisera to human VEGF were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.        |

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| Buffer Solution                   | Phosphate buffered saline  |
| Preservative Stabilisers          | None present   |
| Carrier Free                      | Yes  |
| Approx. Protein Concentrations    | IgG concentration 1.0 mg/ml after reconstitution.  |
| Immunogen                         | <a href="#">Recombinant human VEGF</a>   |
| External Database Links           | <p><b>UniProt:</b><br/> <a href="#">P15692</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">7422</a>    VEGFA    <a href="#">Related reagents</a></p>   |
| Synonyms                          | VEGF   |
| RRID                              | AB_2212845   |
| Specificity                       | <p><b>Goat anti Human VEGF antibody</b> 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.</p> <p>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 VEGF<sub>165</sub>. 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).</p> |
| ELISA                             | This purified human VEGF antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with our <a href="#">biotinylated human VEGF antibody</a> (AHP831B) as the detection reagent and <a href="#">recombinant human VEGF</a> (PHP091) as the standard.   |
| Histology Positive Control Tissue | Human breast invasive ductal carcinoma   |
| Western Blotting                  | This antibody may be used in Western Blotting under either reducing or non-reducing conditions with <a href="#">recombinant human VEGF</a> (PHP091) as the positive control.   |
| References                        | 1. Hjelmgren, O. <i>et al.</i> (2016) Increased Vascularization in the Vulnerable Upstream Regions of Both Early and Advanced Human Carotid Atherosclerosis. <a href="#">PLoS One. 11 (12): e0166918.</a>  |

2. Gamliel, M. *et al.* (2018) Trained Memory of Human Uterine NK Cells Enhances Their Function in Subsequent Pregnancies. [Immunity. 48 \(5\): 951-962.e5.](#)

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|------------------------|---|
| <b>Further Reading</b> | 1. Neufeld, G. <i>et al.</i> (1999) Vascular endothelial growth factor (VEGF) and its receptors. <a href="#">FASEB J. 13: 9-22.</a> |
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| <b>Storage</b> | Prior to reconstitution store at -20°C.<br>After reconstitution store at -20°C.<br><br>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. |
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| <b>Guarantee</b> | 12 months from date of despatch |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10294 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP83110294">https://www.bio-rad-antibodies.com/SDS/AHP83110294</a> |
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| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

### Recommended Positive Controls

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

### Recommended Useful Reagents

[GOAT ANTI HUMAN VEGF:Biotin \(AHP831B\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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