

Datasheet: MCA5750Z

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| Description: | MOUSE ANTI HUMAN VEGF:Preservative Free |
| Specificity: | VEGF |
| Other names: | VPF |
| Format: | Preservative Free |
| Product Type: | Monoclonal Antibody |
| Clone: | 4B2-8 |
| Isotype: | IgG1 |
| Quantity: | 0.5 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.

| | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | | | ■ | |
| Immunohistology - Frozen | | | ■ | |
| Immunohistology - Paraffin | | | ■ | |
| ELISA | ■ | | | 2.0 - 4.0ug/ml |
| Immunoprecipitation | | | ■ | |
| Western Blotting | ■ | | | 0.25 - 0.50ug/ml |
| Functional Assays | ■ | | | 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.

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| Target Species | Human |
| Product Form | Purified IgG - lyophilised |
| Reconstitution | Reconstitute with 0.5 ml distilled water |
| | 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. |
| Preparation | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |

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| Approx. Protein Concentrations | IgG concentration 1.0 mg/ml after reconstitution |
| Immunogen | Highly pure recombinant human VEGF₁₆₅ (PHP091). |
| External Database Links | <p>UniProt: P15692 Related reagents</p> <p>Entrez Gene: 7422 VEGFA Related reagents</p> |
| Synonyms | VEGF |
| RRID | AB_10897188 |
| Specificity | <p>Mouse anti Human Vascular endothelial growth factor antibody, clone 4B2-8 recognizes human Vascular endothelial growth factor A , also known as VEGF-A or Vascular permeability factor. VEGF-A is a 206 amino acid ~45 kDa disulphide linked homodimeric heparin-binding cytokine and member of the PDGF/VEGF growth factor family, which exists as several splice variants of the VEGF gene, and 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 are classified according to the number of amino acid residues within a constitutive polypeptide chain e.g VEGF₁₆₅, and 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 | MCA5750Z may be used in a sandwich ELISA with AHP831B as the detection antibody and PHP091 as the standard. |
| Western Blotting | MCA5750Z detects a band of approximately 38.2kDa using recombinant human VEGF ₁₆₅ PHP091 under non-reducing conditions. |
| Storage | <p>Prior to reconstitution store at -20°C. After reconstitution store at -20°C.</p> <p>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.</p> |
| Guarantee | 6 months from date of despatch |
| Health And Safety Information | Material Safety Datasheet documentation #10294 available at: 10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf |
| Regulatory | For research purposes only |

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

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| Goat Anti Mouse IgG (STAR77...) | HRP |
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Rabbit Anti Mouse IgG (STAR8...) | DyLight®800 |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Goat Anti Mouse IgG (STAR70...) | FITC |
| Goat Anti Mouse IgG (Fc) (STAR120...) | FITC , HRP |
| Rabbit Anti Mouse IgG (STAR9...) | FITC |
| Goat Anti Mouse IgG (H/L) (STAR117...) | Alk. Phos. , DyLight®488 , DyLight®680 , DyLight®800 , FITC , HRP |

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
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