

Datasheet: MCA5750Z

BATCH NUMBER 152328

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.

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

Approx. Protein Concentrations IgG concentration 1.0 mg/ml after reconstitution

Immunogen [Highly pure recombinant human VEGF₁₆₅](#) (PHP091).

External Database Links

UniProt:

[P15692](#)

[Related reagents](#)

Entrez Gene:

[7422](#)

VEGFA

[Related reagents](#)

Synonyms VEGF

RRID AB_10897188

Specificity

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.

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).

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 VEGF₁₆₅ [PHP091](#) under non-reducing conditions.

Storage

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	6 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/MCA5750Z 10294
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

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

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