

Datasheet: MCA5750Z

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
Approx. Protein	IgG concentration 1.0 mg/ml after reconstitution

Concentrations

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

External Database Links

UniProt:

[P15692](#)

[Related reagents](#)

Entrez Gene:

[7422](#)

VEGFA

[Related reagents](#)

Synonyms

VEGF

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 +4°C. Following 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.

Shelf Life

12 months from date of reconstitution.

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 (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

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

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