

# Datasheet: MCA5331Z

**BATCH NUMBER 180115**

<b>Description:</b>	MOUSE ANTI HUMAN VEGF RECEPTOR 3:Preservative Free
<b>Specificity:</b>	VEGF RECEPTOR 3
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	5B5
<b>Isotype:</b>	IgG2a
<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
Western Blotting	▪			0.1 - 10 ug/ml

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Ig concentration 0.5 mg/ml
<b>Immunogen</b>	Recombinant protein corresponding to aa 34-133 of human VEGF receptor 3.
<b>External Database Links</b>	<b>UniProt:</b>

**Entrez Gene:**

[2324](#)   FLT4   [Related reagents](#)

<b>RRID</b>	AB_2105121
<b>Fusion Partners</b>	Spleen cells from BALB/c mice were fused with cells from the Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human VEGF receptor 3 antibody, clone 5B5</b> recognizes human vascular endothelial growth factor receptor 3, also known as Fms-like tyrosine kinase 4, FLT-4 or Tyrosine-protein kinase receptor FLT4. FLT-4 is a 1339 amino acid ~160 kDa single pass type 1 transmembrane glycoprotein receptor for VEGFC and VEGFD, playing an essential role in adult lymphangiogenesis.</p> <p>Three isoforms produced by alternative splicing have been described. Mouse anti Human VEGF receptor 3 antibody, clone 5B5 binds to the canonical isoform 1, isoforms 2 and 3 also preserve the complete unaltered immunogen sequence used to generate clone 5B5 and therefore also be expected to be recognized by the antibody.</p> <p>Mutations of the FLT4 gene can lead to Lymphedema, hereditary, 1A (<a href="#">LMPH1A</a>), a chronic condition with swelling of the extremities caused by alterations in lymph flow (<a href="#">Irrthum et al. 2000</a>). Mutations can also lead to increases susceptibility to Hemangioma, capillary infantile (<a href="#">HCI</a>), a condition characterised by sharply demarcated skin hemangiomas present at birth or within the first few months after birth as a result of highly proliferative capillary endothelial growth. These generally undergo regression and involution (<a href="#">Walter et al. 2002</a>).</p>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10162 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5331Z">https://www.bio-rad-antibodies.com/SDS/MCA5331Z</a></p> <p>10162</p>
<b>Regulatory</b>	For research purposes only

## 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](#)

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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)  
 'M368191:200529'

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