

## Datasheet: MCA5964GA

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-11
<b>Specificity:</b>	IL-11
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C01-1C2
<b>Isotype:</b>	IgG1
<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
ELISA	■			

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 G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> derived recombinant protein corresponding to aa 23-125 of human IL-11
<b>External Database Links</b>	<b>UniProt:</b> <a href="http://www.uniprot.org/entry/P20809">P20809</a> <a href="#">Related reagents</a>

**Entrez Gene:**[3589](#) IL11 [Related reagents](#)

<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<p><b>Mouse anti Human interleukin-11, clone C01-1C2</b>, recognizes human interleukin-11 (IL-11), a 178 amino acid non-glycosylated pleiotropic cytokine, also known as AGIF. IL-11 is a 19 kDa member of the IL-6 of cytokines. It signals through a high affinity receptor complex, made up of the IL-11 receptor alpha chain (IL-11Ralpha) and gp130 which triggers homo- or hetero-dimerization of gp130. Although gp130 and its dimer partners possess no kinase activity, the dimerization of gp130 leads to activation of tyrosine kinases and modulation of transcriptional activity.</p> <p>IL-11 is an important regulator in the haematopoiesis of erythroid, myeloid and megakaryocyte progenitor cells and is expressed in a variety of tissues including the lung, bone, thymus and connective tissue. Expression of IL-11 in endometrial stromal cells is vital for normal murine embryo development, and implicated in decidualization during human pregnancy. IL-11 is a functionally diverse signalling molecule with roles in megakaryopoiesis (Dams-Kozłowska <i>et al.</i> 2013), bone growth (Sims <i>et al.</i> 2005) and T cell proliferation (Curti <i>et al.</i> 2002).</p>
<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Curti, A. <i>et al.</i> (2002) Interleukin-11 induces proliferation of human T-cells and its activity is associated with downregulation of p27(kip1) <a href="#">Haematologica 87: 373-80.</a></li><li>2. Dams-kożłowska, H. <i>et al.</i> (2013) Designer cytokine hyper interleukin 11 (H11) is a megakaryopoietic factor. <a href="#">Int J Med Sci. 10 (9): 1157-65.</a></li><li>3. Sims, N.A. <i>et al.</i> (2005) Interleukin-11 receptor signaling is required for normal bone remodeling <a href="#">Journal of Bone and Mineral Research 20: 1093–102.</a></li></ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA5964GA">https://www.bio-rad-antibodies.com/SDS/MCA5964GA</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

## Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376	<b>Worldwide</b>	Tel: +44 (0)1865 852 700	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21
	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>		Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>		Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>

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)  
'M389634:210806'

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