

## Datasheet: MCA1136

**BATCH NUMBER 160863**

<b>Description:</b>	MOUSE ANTI HUMAN CD130
<b>Specificity:</b>	CD130
<b>Other names:</b>	gp130-R
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	B-T2
<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
Flow Cytometry	▪			0.2ug/10 <sup>6</sup> cells
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<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>	<0.1% Sodium Azide (NaN <sub>3</sub> )

<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml
<b>Immunogen</b>	Natural soluble gp130 receptor.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P40189</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3572</a>    IL6ST    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2125973
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c (Iffa Credo) mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD130 antibody, clone B-T2</b> recognizes soluble and membrane bound gp130 receptor, also known as CD130, Interleukin-6 receptor subunit beta, Oncostatin-M receptor subunit alpha or Interleukin-6 signal transducer. CD130 is a 918 amino acid, ~130 kDa single pass type-1 transmembrane glycoprotein containing a single <a href="#">Ig-like C2 type</a> and multiple <a href="#">fibronectin type-III</a> domains. CD130 can be cleaved to form a monomeric soluble ~100 kDa form of the receptor detectable in plasma and other biologic fluids where it acts as an IL-6 antagonist (<a href="#">Müller-Newen et al. 1998</a>). Mouse anti Human CD130 antibody, clone B-T2 binds to an epitope dependent at least partially on the presence of the Ig-like domain (<a href="#">Hammacher et al. 1998</a>).</p> <p>Mouse anti Human CD130 antibody, clone B-T2 has been reported to block receptor activity and inhibit IL-6 induced proliferation of XG1 cells and IL-27 mediated proliferation of naive CD4<sup>+</sup> T cells(<a href="#">de Groot et al. 2012</a>, <a href="#">Pflanz et al. 2004</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wijdenes, J. <i>et al.</i> (1995) Interleukin-6 signal transducer gp130 has specific binding sites for different cytokines as determined by antagonistic and agonistic anti-gp130 monoclonal antibodies. <a href="#">Eur J Immunol. 25 (12): 3474-81.</a></li> <li>2. Cork, B.A. (2002) Expression of interleukin (IL)-11 receptor by the human endometrium <i>in vivo</i> and effects of IL-11, IL-6 and LIF on the production of MMP and cytokines by human endometrial cells <i>in vitro</i>. <a href="#">Mol Hum Reprod. 8: 841-8.</a></li> <li>3. Zhang, L. <i>et al.</i> (2012) Role of the microenvironment in mantle cell lymphoma: IL-6 is an important survival factor for the tumor cells. <a href="#">Blood. 120 (18): 3783-92.</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/MCA1136">https://www.bio-rad-antibodies.com/SDS/MCA1136</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<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 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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)  
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