

Datasheet: MCA1136

BATCH NUMBER 166748

Description:	MOUSE ANTI HUMAN CD130
Specificity:	CD130
Other names:	gp130-R
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B-T2
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			0.2ug/10 ⁶ 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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Natural soluble gp130 receptor.
External Database Links	<p>UniProt: P40189 Related reagents</p> <p>Entrez Gene: 3572 IL6ST Related reagents</p>
RRID	AB_2125973
Fusion Partners	Spleen cells from immunised BALB/c (Iffa Credo) mice were fused with cells of the X63.Ag8.653 mouse myeloma cell line.
Specificity	<p>Mouse anti Human CD130 antibody, clone B-T2 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 Ig-like C2 type and multiple fibronectin type-III 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 (Müller-Newen et al. 1998). Mouse anti Human CD130 antibody, clone B-T2 binds to an epitope dependent at least partially on the presence of the Ig-like domain (Hammacher et al. 1998).</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⁺ T cells(de Groot et al. 2012, Pflanz et al. 2004).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl.
References	<ol style="list-style-type: none"> 1. 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>. Mol Hum Reprod. 8: 841-8. 2. Zhang, L. et al. (2012) Role of the microenvironment in mantle cell lymphoma: IL-6 is an important survival factor for the tumor cells. Blood. 120 (18): 3783-92.
Storage	<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>

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1136 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
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
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

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

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
'M410471:221028'

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