Datasheet: MCA1136

BATCH NUMBER 160868

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/10⁶cells
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
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)

Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Natural soluble gp130 receptor.
External Database Links	**UniProt:** P40189 Related reagents **Entrez Gene:** 3572 IL6ST Related reagents
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	**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). 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).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Wijdenes, J. *et al.* (1995) Interleukin-6 signal transducer gp130 has specific binding sites for different cytokines as determined by antagonistic and agonistic anti-gp130 monoclonal antibodies. Eur J Immunol. 25 (12): 3474-81. 2. Cork, B.A. (2002) Expression of interleukin (IL)-11 receptor by the human endometrium *in vivo* and effects of IL-11, IL-6 and LIF on the production of MMP and cytokines by human endometrial cells *in vitro*. Mol Hum Reprod. 8: 841-8. 3. 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	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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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...)	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
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP

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

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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

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