

Datasheet: MCA1136

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 ion exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
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](#)

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 10⁶ 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 Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
 Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),
[FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
 Goat Anti Mouse IgG (STAR77...) [HRP](#)
 Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
 Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
 Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
 Goat Anti Mouse IgG (STAR70...) [FITC](#)
 Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
 Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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