

Datasheet: MCA6233B

Description:	MOUSE ANTI HUMAN CD130:Biotin
Specificity:	CD130
Other names:	IL-6RB
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	E03-3C2
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
ELISA	▪			1.0 ug/ml

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.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Sf21 derived recombinant human CD130 (Leu24-Glu619)

**External Database
Links**

UniProt:

[P40189](#) [Related reagents](#)

Entrez Gene:

[3572](#) IL6ST [Related reagents](#)

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human CD130, clone E03-3C2, recognizes CD130, also known as glycoprotein 130 (gp130) and STAT3. It is a ubiquitously expressed receptor subunit of the IL-6 family of cytokines and plays a role in many biological processes including hematopoiesis, immune response, inflammation, cardiovascular action, and neuronal survival. CD130 also plays a critical role during development with CD130 deficient mice being embryonically lethal as a result of myocardial hypoplasia and defects in hematopoiesis ([White & Stephens 2011](#)). CD130 is known to bind various cytokines in the IL-6 family, including IL-6, IL-11, IL-27, CT-1, oncostatin M and ciliary neurotrophic factor ([White & Stephens 2011](#)). Upon activation by these cytokines, various signaling pathways can be initiated including JAK/STAT, MAPK, mTOR, ERK and PI3K/Atk ([Silver & Hunter 2010](#)).

The biotinylated Mouse anti Human CD130 antibody, clone E03-3C2 (MCA6233B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human CD130 antibody, clone A14-5C5 ([MCA6232GA](#)) as the capture antibody.

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 #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN CD130 \(MCA6232GA\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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