

Datasheet: MCA6233B

**BATCH NUMBER 100005187**

<b>Description:</b>	MOUSE ANTI HUMAN CD130:Biotin
<b>Specificity:</b>	CD130
<b>Other names:</b>	IL-6RB
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	E03-3C2
<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
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.

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

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6233B>  
10041

**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](http://bio-rad-antibodies.com/datasheets)

