

## Datasheet: MCA6000

<b>Description:</b>	MOUSE ANTI MOUSE CD32B
<b>Specificity:</b>	CD32B
<b>Other names:</b>	FcRIIB
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AT130-5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.25 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
Flow Cytometry	▪			1/10

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>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	TRIS buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Mouse CD32-rat CD4 fusion protein.

**External Database  
Links**

**UniProt:**

[P08101](#)    [Related reagents](#)

**Entrez Gene:**

[14130](#)    Fcgr2b    [Related reagents](#)

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**Synonyms**

Fcgr2b, Ly-17

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**Fusion Partners**

Spleen cells from immunized mice were fused with cells of the NS-1 myeloma cell line.

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**Specificity**

**Mouse anti Mouse CD32B, clone AT130-5**, recognizes mouse CD32B also known as FcRIIB. CD32B (FcRIIB) is a low affinity receptor for IgG1, IgG2a and IgG2b type antibodies. Unlike other FcRs, the intracellular domain of CD32B contains a inhibitory signalling motif (ITIM) that can antagonize signal transduction mediated through other activatory receptors. FcRIIB is expressed on all myeloid populations and on B-cells.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. White, A. *et al.* (2011) Interaction with FcγRIIB is critical for the agonistic activity of anti-CD40 monoclonal antibody. [J Immunol. 187: 1754-1763](#)
2. Williams, E.L. *et al.* (2012) Development and characterisation of monoclonal antibodies specific for the murine inhibitory FcγRIIB (CD32B). [Eur J Immunol. 42: 2109-20](#)
3. Jimenez, R.V. *et al.* (2018) C-Reactive Protein Impairs Dendritic Cell Development, Maturation, and Function: Implications for Peripheral Tolerance. [Front Immunol. 9: 372.](#)
4. Merlo, L.M.F. *et al.* (2017) Therapeutic antibody targeting of indoleamine-2,3-dioxygenase (IDO2) inhibits autoimmune arthritis. [Clin Immunol. 179: 8-16.](#)

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10057 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6000>  
10057

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## 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](#)

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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://bio-rad-antibodies.com/datasheets)  
'M391396:211013'

Printed on 18 Jan 2024

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