

Datasheet: MCA2092F

Description:	MOUSE ANTI RAT CD152:FITC
Specificity:	CD152
Other names:	CLTA-4, CTLA-4
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	WKH203
Isotype:	lgG1
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 <a href="https://www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	-			Neat

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.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm<sup>™</sup> (Product Code <u>BUF09</u>) for this purpose.

Target Species	Rat		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore Excitation (nm) Emission (nm)		
	FITC 490 520		
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernat		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		
Immunogen	Purified rCTLA-4hlg fusion protein.		
Fusion Partners	Spleen cells from immunized Balb/c were fused with cells of the X63-Ag8-653 myeloma cell		

<b>Mouse anti Rat CD152 antibody, clone WKH203</b> recognizes rat CD152, also known as cytoxic-T-lymphocyte antigen-4 (CTLA-4), which is similar in structure to CD28 and also binds ligands CD80 and CD86. CD152 is expressed by activated T-lymphocytes and studies also suggest expression by regulatory T-lymphocytes ( <u>Lin and Hunig 2003</u> ).
Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
1. Elflein, K. et al. (2003) Rapid recovery from T lymphopenia by CD28 superagonist therapy
Blood. 102: 1764-1770.
2. Lin, C-H. and Hunig, T. (2003) Efficient expansion of regulatory T cells in vitro and in vivo
with a CD 28 superagonist. Eur J. Immunol. 33: 626-638.
3. Almolda, B. et al. (2010) Activated microglial cells acquire an immature dendritic cell
phenotype and may terminate the immune response in an acute model of EAE. J
Neuroimmunol. 223:39-54.
Store at +4°C or at -20°C if preferred.
This product should be stored undiluted.
Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
18 months from date of despatch.
Material Safety Datasheet Documentation #10041 available at:
https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf

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