

## Datasheet: MCA2548F

<b>Description:</b>	MOUSE ANTI HUMAN CD142:FITC
<b>Specificity:</b>	CD142
<b>Other names:</b>	TISSUE FACTOR
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	CLB/TF-5
<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
Flow Cytometry	▪			

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	FITC	490	525
<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>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml		

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**External Database****Links****UniProt:**[P13726](#)[Related reagents](#)**Entrez Gene:**[2152](#)

F3

[Related reagents](#)

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**RRID**

AB\_616750

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**Specificity**

**Mouse anti Human CD142 antibody, clone CLB/TF-5** recognizes human CD142, a 45kD cell surface glycoprotein which is otherwise known as Tissue Factor (TF). CD142 expression can be induced on monocytes, macrophages and endothelial cells by various stimuli including interleukin 1, tumour necrosis factor and endotoxin. CD142 initiates the blood clotting cascade by binding coagulation factor VIIa, which activates factor IX or factor X by specific limited proteolysis. CD142 also plays an important role in inflammation, angiogenesis, and the pathophysiology of atherosclerosis and cancer.

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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. van der Putten, R.F. *et al.* (2005) High-affinity antibodies in a new immunoassay for plasma tissue factor: reduction in apparent intra-individual variation. [Clin Chem Lab Med. 43 \(12\): 1386-91.](#)
2. Mobarrez, F. *et al.* (2010) A multicolor flow cytometric assay for measurement of platelet-derived microparticles. [Thromb Res. 125: e110-6.](#)
3. Tehrani, S. *et al.* (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. [Thromb Res. 126: e225-31.](#)
4. Aass, H.C. *et al.* (2011) Fluorescent particles in the antibody solution result in false TF- and CD14-positive microparticles in flow cytometric analysis. [Cytometry A. 79: 990-9.](#)
5. Trummer, A. *et al.* (2008) Isotype controls in phenotyping and quantification of microparticles: a major source of error and how to evade it. [Thromb Res. 122: 691-700.](#)
6. Welsh, J. *et al.* (2012) Tissue factor expression determines tumour cell coagulation kinetics. [Int J Lab Hematol. 34 \(4\): 396-402.](#)

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at  $-20^{\circ}\text{C}$  on receipt. When thawed, aliquot the sample as needed. Keep aliquots at  $2-8^{\circ}\text{C}$  for short term use (up to 4 weeks) and store the remaining aliquots at  $-20^{\circ}\text{C}$ .

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10058 available at: 10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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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)  
'M385178:210513'

Printed on 18 May 2021

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