

## Datasheet: MCA2062F

<b>Description:</b>	MOUSE ANTI HUMAN CD143:FITC
<b>Specificity:</b>	CD143
<b>Other names:</b>	ACE
<b>Format:</b>	FITC
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	i1A8
<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	▪			Neat - 1/10

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.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Monkey <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation (nm)</b>	<b>Emission (nm)</b>
	FITC	490	520
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1.0% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml		
<b>Immunogen</b>	Human lung CD143 (Angiotensin converting enzyme).		
<b>External Database Links</b>	<b>UniProt:</b>		
	<a href="#">P12821</a>	<a href="#">Related reagents</a>	

**Entrez Gene:**[1636](#) ACE [Related reagents](#)

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<b>Synonyms</b>	DCP, DCP1
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<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the mouse X36 - Ag8 - 653 myeloma cell line.
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<b>Specificity</b>	<b>Mouse anti Human CD143 antibody, clone i1A8</b> recognizes human CD143, also known as angiotensin - converting enzyme (ACE). CD143 exists in two forms, a 170 kDa somatic form and a 90 kDa germinal form. The somatic form is expressed by endothelial cells (especially those of arterioles and lung capillaries), epithelial cells (especially in proximal renal tubules and in the small intestine), by some neuronal cells and variably on some macrophages and T lymphocytes. The germinal form is expressed by spermatozoa.
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Danilov, S. <i>et al.</i> (1994) Structure-function analysis of angiotensin I-converting enzyme using monoclonal antibodies. Selective inhibition of the amino-terminal active site. <a href="#">J Biol Chem. 269 (43): 26806-14.</a></li><li>2. Metzger, R. <i>et al.</i> (2000) CD143 in the development of atherosclerosis. <a href="#">Atherosclerosis. 150 (1): 21-31.</a></li></ol>
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<b>Storage</b>	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.
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10267 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10267.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10267.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)[HUMAN SEROBLOCK \(BUF070B\)](#)

**North & South America**  
Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

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