

## Datasheet: MCA1878F

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD97:FITC |
| <b>Specificity:</b>  | CD97                       |
| <b>Format:</b>       | FITC                       |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | MEM-180                    |
| <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>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 G                  |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline                                                      |                            |                          |
| <b>Preservative</b>                   | 0.09% Sodium Azide                                                             |                            |                          |
| <b>Stabilisers</b>                    | 1% Bovine Serum Albumin                                                        |                            |                          |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.1mg/ml                                                     |                            |                          |
| <b>External Database Links</b>        | <b>UniProt:</b>                                                                |                            |                          |
|                                       | <a href="#">P48960</a> <a href="#">Related reagents</a>                        |                            |                          |
|                                       | <b>Entrez Gene:</b>                                                            |                            |                          |
|                                       | <a href="#">976</a> CD97 <a href="#">Related reagents</a>                      |                            |                          |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>                   | <b>Mouse anti Human CD97 antibody, clone MEM-180</b> recognizes the human CD97 cell surface antigen, a 74-89 kDa glycoprotein expressed by granulocytes, monocytes, some activated lymphocytes and weakly by resting lymphocytes (5-15%). Mouse anti Human CD97 antibody, clone MEM-180 has been reported to detect CD97 antigen weakly in western blotting.                                                                                                                                                                                                                                                                                                        |
| <b>Flow Cytometry</b>                | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>References</b>                    | <ol style="list-style-type: none"> <li>1. Steinert, M. <i>et al.</i> (2002) Expression and regulation of CD97 in colorectal carcinoma cell lines and tumor tissues. <a href="#">Am J Pathol. 161 (5): 1657-67.</a></li> <li>2. Hamann, J. <i>et al.</i> (1998) Characterization of the CD55 (DAF)-binding site on the seven-span transmembrane receptor CD97. <a href="#">Eur J Immunol. 28 (5): 1701-7.</a></li> <li>3. Wobus, M. <i>et al.</i> (2004) N-glycosylation of CD97 within the EGF domains is crucial for epitope accessibility in normal and malignant cells as well as CD55 ligand binding. <a href="#">Int J Cancer. 112 (5): 815-22.</a></li> </ol> |
| <b>Storage</b>                       | <p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                    |
| <b>Shelf Life</b>                    | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

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**Printed on 04 May 2018**