## Datasheet: MCA497A700T BATCH NUMBER 154609

| Description:  | RAT ANTI MOUSE F4/80:Alexa Fluor® 700 |
|---------------|---------------------------------------|
| Specificity:  | F4/80                                 |
| Format:       | ALEXA FLUOR® 700                      |
| Product Type: | Monoclonal Antibody                   |
| Clone:        | CI:A3-1                               |
| Isotype:      | lgG2b                                 |
| Quantity:     | 25 TESTS/0.25ml                       |

## **Product Details**

| Applications                      | This product has been                   | reported to we   | ork in the | e following applica | ations. This information is |
|-----------------------------------|---|------------------|------------|---------------------|-----------------------------|
|                                   | derived from testing wi                 | thin our labora  | tories, p  | eer-reviewed pub    | lications or personal       |
|                                   | communications from t                   | the originators. | Please     | refer to reference  | es indicated for further    |
|                                   | information. For genera                 | al protocol rec  | ommend     | ations, please vis  | it <u>www.bio-</u>          |
|                                   | rad-antibodies.com/pro                  | otocols.         |            |                     |                             |
|                                   |   | Yes              | No         | Not Determined      | Suggested Dilution          |
|                                   | Flow Cytometry                          | -                |            |                     | Neat - 1/10                 |
|                                   | Where this antibody ha                  | as not been te   | sted for u | ise in a particular | technique this does not     |
|                                   | necessarily exclude its                 | use in such p    | rocedure   | s. The suggested    | d working dilution is given |
|                                   | as a guide only. It is re               | commended th     | hat the u  | ser titrates the ar | tibody for use in their own |
|                                   | system using appropria                  | ate negative/po  | ositive co | ontrols.            |                             |
| Target Species                    | Mouse                                   |                  |            |                     |                             |
| Product Form                      | Purified IgG conjugated                 | d to Alexa Flue  | or® 700 -  | - liquid            |                             |
| Max Ex/Em                         | Fluorophore                             | Excitation Max   | x (nm) E   | Emission Max (nm    | n)                          |
|                                   | Alexa Fluor®700                         | 702              |            | 723                 |                             |
| Preparation                       | Purified IgG prepared b<br>supernatant. | by affinity chro | matogra    | phy on Protein G    | from tissue culture         |
| Buffer Solution                   | Phosphate buffered sa                   | line             |            |                     |                             |
| Preservative                      | 0.09% Sodium Azide                      |                  |            |                     |                             |
| Stabilisers                       | 1% Bovine Serum A                       | Albumin          |            |                     |                             |
| Approx. Protein<br>Concentrations | IgG concentration 0.05                  | 5 mg/ml          |            |                     |                             |

## Immunogen Thioglycollate stimulated peritoneal macrophages from C57BL/6 mice.

| External Database<br>Links | UniProt:         Q61549       Related reagents         Entrez Gene:         13733       Emr1         Related reagents   |
|----------------------------|---|
| Synonyms                   | Gpf480  |
| RRID                       | AB_1102556  |
| Fusion Partners            | Spleen cells from immunised HOB2 rats were fused with cells of the mouse NS1 myeloma cell line.   |
| Specificity                | <b>Rat anti mouse F4/80 antibody, clone CI:A3-1</b> recognizes the <u>murine F4/80 antigen</u> , a ~160 kDa cell surface glycoprotein member of the EGF-TM7 family of proteins which shares 68% overall amino acid identity with human EGF module-containing mucin-like hormone receptor 1 (EMR1).  |
|                            | Expression of F4/80 is heterogeneous and is modulated during macrophage maturation<br>and activation. The F4/80 antigen is expressed on a wide range of mature tissue<br>macrophages including Kupffer cells, Langerhans cells, microglia, macrophages located in<br>the gut lamina propria, peritoneal cavity, lung, thymus, bone marrow stroma and<br>macrophages in the red pulp of the spleen (Hume, <i>et al.</i> 1984). F4/80 antigen is also<br>expressed on a subpopulation of dendritic cells but is absent from macrophages located in<br>T cell areas of the spleen and lymph node (Gordon, <i>et al.</i> 1994). The ligands and<br>biological functions of the F4/80 antigen have not been fully determined but a role for<br>F4/80 in the generation of efferent CD8+ve regulatory T cells is proposed (Lin, <i>et al.</i> 2005) |
|                            | Rat anti mouse F4/80 antibody, clone CI:A3-1 modulates cytokine levels released in response to <i>Listeria monocytogenes</i> (Warschkau & Kiderlen, 1999).  |
|                            | A Human anti-idiotypic CI:A31 antibody, clone 17867 ( <u>HCA154</u> ) which binds to and blocks activity of Rat anti mouse F4/80 antibody, clone CI:A3-1 is also available for use as a control in experiments utilizing clone A3-1.  |
| Flow Cytometry             | Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.   |
| References                 | <ol> <li>Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine<br/>tissues. <u>Curr Top Microbiol Immunol. 181: 1-37.</u></li> <li>Warschkau, H. &amp; Kiderlen, A.F. (1999) A monoclonal antibody directed against the<br/>murine macrophage surface molecule F4/80 modulates natural immune response to<br/><i>Listeria monocytogenes</i>. <u>J Immunol. 163 (6): 3409-16.</u></li> <li>Lin, H.H.<i>et al.</i> (2005) The macrophage F4/80 receptor is required for the induction of<br/>antigen-specific efferent regulatory T cells in peripheral tolerance. <u>J Exp Med. 201 (10):</u><br/><u>1615-25.</u></li> </ol>   |

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|   | Adipose Tissue Inflammation and Promotes Macrophage Anti-inflammatory Activation. $\underline{J}$   |
|   | Nutr Biochem. May 5;108764 [Epub ahead of print].   |
| Storage   | 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.  |
| Guarantee   | 12 months from date of despatch   |
|   |   |
| Acknowledgements  | This product is provided under an intellectual property licence from Life Technologies<br>Corporation. The transfer of this product is contingent on the buyer using the purchase<br>product solely in research, excluding contract research or any fee for service research,<br>and the buyer must not sell or otherwise transfer this product or its components for (a)   |
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