

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Product name</b>   | C3aR, Rat, clone 74 (rC3aRZ1)            |                      |           |
| <b>Catalog number</b> | HM3028                                   |                      |           |
| <b>Lot number</b>     | -  | <b>Expiry date</b>   | -         |
| <b>Volume</b>         | 1 ml                                     | <b>Amount</b>        | 100 µg    |
| <b>Formulation</b>    | 0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3 | <b>Concentration</b> | 100 µg/ml |
| <b>Host Species</b>   | Mouse IgG1                               | <b>Conjugate</b>     | None      |
| <b>Endotoxin</b>      | N.A.                                     | <b>Purification</b>  | Protein G |
| <b>Storage</b>        | 4°C                                      |                      |           |

**Application notes**

|             | IHC-F | IHC-P | IF | FC | FS | IA | IP | W |
|-------------|-------|-------|----|----|----|----|----|---|
| Reference # |       |       |    |    |    |    |    |   |
| Yes         | •     |       |    | •  |    |    |    |   |
| No          |       |       |    |    |    |    |    |   |
| N.D.        |       | •     | •  |    | •  | •  | •  | • |

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- The antibody 74 (rC3aRZ1) does not block binding of ligand to C3aR.

**General Information**

|                              |   |
|------------------------------|---|
| <b>Description</b>           | The monoclonal antibody 74 reacts with the rat receptor for C3a. The monoclonal antibody 74 is in the literature also referred to as clone rC3aRZ1. In the course of complement activation the C3a receptor functions as the cell surface receptor for the anaphylatoxin C3a, the C-terminal 77 amino acid cleavage product of the alpha chain of C3, but not for C3a-desArg. All cellular responses to C3a are specifically mediated by interactions with the membrane bound C3a receptor, a seven transmembrane GTP-binding-protein-coupled receptor that belongs to the rhodopsin supergene family. The 54 kDa C3a receptor is widely distributed in myeloid cells, peripheral tissues and the central nervous system. Expression of C3aR has been demonstrated on neutrophils, monocytes, eosinophils, astrocytes, neurons and glial cells and is increased in inflammatory conditions. No C3aR expression was detectable on lymphocytes and on tonsillar B cells even after stimulation. |
| <b>References</b>            | 1. Luhmann, A et al; Immunohistochemical analysis of human and rat C3a receptor expression by the use of monoclonal antibodies. Mol Immunol 2001, 38: 108   |
| <b>Storage&amp;stability</b> | Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.   |
| <b>cautions</b>              | For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.  |

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
 Robbert Zwinkels

Date  
 16/03/2018

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).