

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Product name</b>   | C5, Mouse, pAb                           | <b>Expiry date</b>   | -         |
| <b>Catalog number</b> | HP8013-20UG                              |                      |           |
| <b>Lot number</b>     | -  | <b>Amount</b>        | 20 µg     |
| <b>Volume</b>         | 200 µl                                   | <b>Concentration</b> | 100 µg/ml |
| <b>Formulation</b>    | 0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3 | <b>Conjugate</b>     | None      |
| <b>Host species</b>   | Rabbit Ig                                | <b>Purification</b>  | Protein A |
| <b>Endotoxin</b>      | N.A.                                     |                      |           |
| <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 1:10.

**General Information**

|                              |   |
|------------------------------|---|
| <b>Description</b>           | C5 is involved in the activation of the lytic pathway within the complement system which is an important factor in innate immunity. The complement pathways can be divided in the activation pathways and lytic pathway. The activation pathways lead via C3 to the cleavage of the fifth complement component C5 into C5a and C5b. C5a induces smooth muscle contraction, increases vascular permeability, causes degranulation of mast cells and basophils, and release of lysosomal enzymes. In addition C5a stimulates the directed migration of neutrophils, eosinophils, basophils and monocytes. Studies indicate the modulation of the acute-phase response in liver and an overall immune response by inducing synthesis of cytokines such as TNF-alpha, IL-1beta, IL-6 and IL-8. C5b initiates the assembly of the membrane attack complex (MAC) that mediates cytolysis. |
| <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>Precautions</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  
Brenda Teunissen

Date  
14/07/2021

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