

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Product name</b>   | CD55, Human, clone D17                               |                      |           |
| <b>Catalog number</b> | HM2105-20UG  |                      |           |
| <b>Lot number</b>     | -  | <b>Expiry date</b>   | -         |
| <b>Volume</b>         | 200 µl   | <b>Amount</b>        | 20 µg     |
| <b>Formulation</b>    | 0.2 µm filtered in PBS+0.1%BSA+0.02%NaN <sub>3</sub> | <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 1:10.

**General Information**

|                              |   |
|------------------------------|---|
| <b>Description</b>           | CD55, also designated decay accelerating factor (DAF), is a 60-70 kDa glycosyl-phosphatidylinositol (GPI) anchored protein. CD55 is a member of the family of proteins that protect host tissue from damage by autologous complement. CD55 was first recognized as a species restricting factor operating at the level of C3 activation. It binds C3b and C4b to inhibit formation and half-life of the C3 convertases. CD55 expression increases upon T cell activation and in the presence of phorbol esters antibodies to CD55 (e.g. monoclonal antibody D17) are mitogenic. CD55 is broadly distributed among cells in contact with serum, including both haematopoietic and non-haematopoietic cells. Although CD55 does not have an essential role in controlling hemolysis of erythrocytes, it has an important role in regulation of the deposition of C3 on nucleated cells. |
| <b>Aliases</b>               | DAF (decay accelerating factor), CD55   |
| <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  
18/11/2020

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