

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Product name</b>   | CD44, Human, clone NK1-P2                |                      |           |
| <b>Catalog number</b> | HM2127-100UG                             |                      |           |
| <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 1:10.

**General Information**

|                              |  |
|------------------------------|--|
| <b>Description</b>           | CD44, also designated Pgp-1 or H-CAM, is a broadly distributed 85 kDa protein. Amongst haematopoietic cells CD44 is expressed on B and T lymphocytes, monocytes and neutrophils. Other CD44-positive cell types include epithelial cells, glial cells, fibroblasts and myocytes. This broad distribution suggest a general role in cell-cell and cell-matrix adhesion. CD44 is involved in T cell activation and adhesion. Triggering of CD44 increases homotypic T cell aggregation mediated via LFA-1. CD44 is linked to the cytoskeleton. Furthermore CD44 has an accessory role in lymphocyte adhesion to high endothelial venules.  |
| <b>References</b>            | <ol style="list-style-type: none"> <li>1. Pals, S et al; Identification of a widely distributed 90-kDa glycoprotein that is homologous to the Hermes-1 human lymphocyte homing receptor. <i>J Immunol</i> 1989, <i>143</i>:851</li> <li>2. Pals, S et al; Expression of lymphocyte homing receptor as a mechanism of dissemination in non-Hodgkin's lymphoma. <i>Blood</i> 1989, <i>73</i>:885</li> <li>3. Oostendorp, R et al; Antibodies to the beta 1-integrin chain, or ICAM-3 stimulate adhesion of blast colony-forming cells and may inhibit their growth. <i>Exp Hematol</i> 1991, <i>25</i>:345</li> <li>4. Oostendorp, R et al; Adhesion of human hematopoietic progenitor cells to bone-marrow-derived stromal cells is enhanced by antibodies to CD44. <i>Acta Haematol</i> 1996, <i>95</i>:243</li> </ol> |
| <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  
02/12/2019

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