

## CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Product name</b>   | Ficolin-2, Human, clone GN4, biotinylated            |                      |           |
| <b>Catalog number</b> | HM2090BT-50UG  |                      |           |
| <b>Lot number</b>     | -  | <b>Expiry date</b>   | -         |
| <b>Volume</b>         | 0.5 ml   | <b>Amount</b>        | 50 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>     | Biotin    |
| <b>Endotoxin</b>      | N.A.   | <b>Purification</b>  | Protein G |
| <b>Storage</b>        | 4°C  |                      |           |

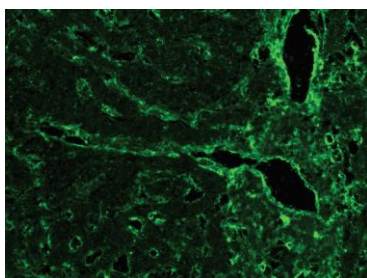
### Application notes

|             | IHC-F | IHC-P | IF | FC | FS | IA | IP | W |
|-------------|-------|-------|----|----|----|----|----|---|
| Reference # | 4     |       |    |    |    |    | 2  |   |
| 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



IHC-F: Immunohistochemical analysis of Ficolin-2 in frozen rat kidney tissue using mAb GN4 (Cat.# HM2090).



IF: Immunofluorescence with HM2090 on frozen liver sections. Dilution used was 1:100.

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.

- IHC-F: Tissue sections were fixed in acetone and pretreated with peroxidase block of the Dako kit 5 min. in the dark at RT to quench endogenous peroxidases.

### General Information

|                         |   |
|-------------------------|---|
| <b>Description</b>      | The monoclonal antibody GN4 recognizes human Ficolin-2, also known as L-ficolin. Ficolins are a family of pattern recognition molecules containing both a collagen-like domain and a fibrinogen-like domain that are capable of activating the complement system, through association with MASPs, on the surface of microorganisms. In human, three Ficolins are known: Ficolin-1 (M-ficolin), Ficolin-2 (L-ficolin), and Ficolin-3 (H-ficolin). Ficolin-1, is mainly expressed by monocytes, granulocytes and lung cells and is present locally in areas of inflammation. Ficolin-2 (also L-ficolin, ficolin L, EBP-37 or hucolin) is produced primarily by the liver. The association between Ficolin-2 and MASPs/sMAP is Ca <sup>2+</sup> -dependent. MASPs in Ficolin-2 -MASP complexes have proteolytic activities for C4, C2 and C3. Ficolin-2 also shows opsonic activity. |
| <b>Aliases</b>          | Ficolin-2/P35, L-ficolin, ficolin L, EBP-37 or hucolin  |
| <b>Cross reactivity</b> | Rat: Yes.   |
| <b>References</b>       | <ol style="list-style-type: none"> <li>Matsushita, M et al; Activation of the lectin complement pathway by ficolins. Int Immunopharmacol 2001, 1: 359</li> <li>Matsushita, M et al; Activation of the lectin complement pathway by H-ficolin (Hakata antigen). J of Immunol 2002, 168: 3502</li> <li>Matsushita, M et al; The role of ficolins in innate immunity. Immunobiol 2002, 205: 490</li> </ol>   |

**Storage&stability** Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

**Precautions** 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.

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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).