

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name Complement factor H, Human, clone L20/3 HM2249 Catalog number Lot number Expiry date Volume Amount 1 ml 100 µg Formulation 0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3 Concentration 100 µg/ml **Host Species** Mouse IgG1 Conjugate None Endotoxin N.A. Purification Protein G 4°C Storage

Application notes

| | IHC-F | IHC-P | IF | FC | FS | IA | IP | W |
|-------------|-------|-------|----|----|----|----|----|---|
| Reference # | | | | | | | | |
| Yes | | | | | | • | | ٠ |
| 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.

General Information

| Description | Monoclonal antibody L20/3 recognizes human complement factor H (CFH). CFH is the first regulatory protein of the alternative pathway of the complement system. There are three pathways of complement activation. The classic pathway is initiated by immune complexes; the alternative pathway which does not require an antibody-antig interaction for its activation; and the lectin pathway by surface bound mannan binding lectin. Each generates a C convertase, a serine protease that cleaves the central complement protein C3, and generates the major cleavar fragment C3b. The complement system mediates a number of essential biological functions that participate in he defense against infection, initiation of the inflammatory reaction, processing and clearance of immune complexes are regulation of the immune response. CFH binds to C3b, accelerates the decay of the alternative pathway C3-converta (C3bBb) and acts as co-factor for the factor I-mediated proteolytic inactivation of C3b. Human complement factor H a single-chain serum glycoprotein of 150 kD with a modular structure consisting of a tandem of 20 homologous un of about 60 amino acid, called short consensus repeats (SCR). Numerous functional sites have been identified alot the SCR7, 13 and 20. CFH displays an anti-inflammatory function and acts as a ligand for CRP. CFH has to important functional domains that are located at the opposite ends of the protein. The N-terminal fragment of the fact H molecule is an essential fluid phase regulator of 0.4-0.8 mg/ml, that is essential to maintain complement homeostas and to restrict the action of complement to activating surfaces. CFH with different human diseases. The include diseases of the kidney, the atypical form of Hemolytic Uremic Syndrome (aHUS) and membranoproliferati glomerulonephritis (MPGN). Furthermore, CFH is associated with age-related macular degeneration (AMD), a disea of the eye. | | | | | |
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| References | Oppermann M. et al; Quantitation of components of the alternative pathway of complement (APC) by enzyme- linked immunosorbent assays. J Immunol Methods 1990, <i>133</i>: 181 Oppermann M. et al; Elevated plasma levels of the immunosuppressive complement fragment Ba in renal failure. Kidney Int 1991, <i>40</i>: 939 Oppermann M et al; Assessment of complement activation <i>in vivo</i>. Immunopharm 1991, <i>24</i>: 119 | | | | | |
| 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.

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 19/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.