# **TECOmedical** Group

Certificate o	f Analysis	Analysezertif	ikat	Certificat d'Analyse
Product name	Complement fa	ctor H, Human, clone L	20/3	
Catalog number	TE2249-100UG			
Lot number	xxxxXxxxx		Expiry date	MMM YYYY
Volume	1 ml		Amount	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
Storage	4°C			
		Application	n notes	

#### IHC-F IHC-P IF FC FS IA IP W Reference # Yes • ٠ No N.D. • • • ٠ • •

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 classical pathway is initiated by immune complexes; the alternative pathway which does not require an antibody-antigen interaction for its activation; and the lectin pathway by surface bound mannan binding lectin. Each generates a C3 convertase, a serine protease that cleaves the central complement protein C3, and generates the major cleavage fragment C3b. The complement system mediates a number of essential biological functions that participate in host defense against infection, initiation of the inflammatory reaction, processing and clearance of immune complexes and regulation of the immune response. CFH binds to C3b, accelerates the decay of the alternative pathway C3-convertase (C3bBb) and acts as co-factor for the factor I-mediated proteolytic inactivation of C3b. Human complement factor H is a single-chain serum glycoprotein of 150 kD with a modular structure consisting of a tandem of 20 homologous units of about 60 amino acid, called short consensus repeats (SCR). Numerous functional sites have been identified along the 20 SCR domain structure of factor H. Three C3-binding sites like heparin and several glycoaminoglycans have also been identified in the SCR7, 13 and 20. CFH displays an anti-inflammatory function and acts as a ligand for CRP. CFH has two important functional domains that are located at the opposite ends of the protein. The N-terminal fragment of the factor H molecule is an essential fluid phase regulator of the alternative pathway. With the C-terminal domain and SCR7, CFH binds to cell and tissue surface. This mediates its protective role also on host cell surface. CFH with different human diseases. These include diseases of the kidney, the atypical form of Hemolytic Uremic Syndrome (aHUS) and membranoproliferative glomerulonephritis (MPGN). Furthermore, CFH is associated with a		
References	<ol> <li>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</li> <li>Oppermann M. et al; Elevated plasma levels of the immunosuppressive complement fragment Ba in renal failure. Kidney Int 1991, <i>40</i>: 939</li> <li>Oppermann M et al; Assessment of complement activation <i>in vivo</i>. Immunopharm 1991, <i>24</i>: 119</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.

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

Date

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

www.tecomedical.com

### A EUROBIO SCIENTIFIC COMPANY

Switzerland **TECO** medical AG Gewerbestrasse 10 4450 Sissach Phone +41 61 985 81 00 Fax +41 61 985 81 09 Mail info@tecomedical.com

Copyright © 01/2021 by TECOmedical Group

Germany **TECO** medical GmbH Wasserbreite 57 32257 Bünde Phone +49 52 23 985 99 99 Fax +49 52 23 985 99 98 Mail info@tecomedical.com

### Benelux

TECOmedical Benelux BV Computerweg 22 3542 DR Utrecht, The Netherlands Phone +31 30 307 87 30 Fax +31 30 307 49 39 Mail benelux@tecomedical.com



 Austria

 TECO medical AG

 Phone
 0800 20 40 66

 Fax
 0800 20 40 55

 Mail
 info@tecomedical.com