

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Complement factor H, Human, clone C18/3							
Catalog number	HM2248-20UG							
Lot number	-	Expiry date	-					
Volume	200 μΙ	Amount	20 µg					
Formulation	$0.2~\mu m$ 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 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 1:50.

General Information

Description	altern pathw intera conve fragm defen regula (C3bl a sing of ab the 20 20 re in the impoi H mo CFH abunc CFH abunc cinclud	Inclonal antibody C18/3 recognizes human complement factor H (CFH). CFH is the first regulatory protein of the hative pathway of the complement system. There are three pathways of complement activation. The classical way is initiated by immune complexes; the alternative pathway which does not require an antibody-antigen inction for its activation; and the lectin pathway by surface bound mannan binding lectin. Each generates a C3 ertase, a serine protease that cleaves the central complement protein C3, and generates the major cleavage tent C3b. The complement system mediates a number of essential biological functions that participate in host against infection, initiation of the inflammatory reaction, processing and clearance of immune complexes and ation of the immune response. CFH binds to C3b, accelerates the decay of the alternative pathway C3-convertase 3b) and acts as co-factor for the factor I-mediated proteolytic inactivation of C3b. Human complement factor H is gle-chain serum glycoprotein of 150 kD with a modular structure consisting of a tandem of 20 homologous units out 60 amino acid, called short consensus repeats (SCR). Numerous functional sites have been identified along 0 SCR domain structure of factor H. Three C3-binding sites have been identified in SCR1-4, SCR6-10 and SCR13- spectively. Three polyanion binding sites like heparin and several glycoarninoglycans have also been identified e SCR7, 13 and 20. CFH displays an anti-inflammatory function and acts as a ligand for CRP. CFH has two tant functional domains that are located at the opposite ends of the protein. The N-terminal fragment of the factor lecule is an essential fluid phase regulator of the alternative pathway. With the C-terminal domain and SCR7, binds to cell and tissue surface. This mediates its protective role also on host cell surface. CFH is a relatively dat plasma protein, with a concentration of 0.4-0.8 mg/ml, that is essential to maintain complement homeostasis o restrict the action of complement to activating surfaces. CFH		
References	1. 2.	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.		
	3.	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	Produ	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 Brenda Teunissen

Date 09/12/2020

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

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