CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Factor H, Mouse, clone 1A2, FITC conjugated		
Catalog number	HM1119F-100UG		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Mouse IgG1	**Conjugate**	FITC
Endotoxin	N.A.	**Purification**	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #						1		
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.

- IA: Antibody 1A2 can be used as a capture and detection antibody.

General Information

Description Monoclonal antibody 1A2 recognizes mouse 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; classical, alternative, and lectin activation pathway. These pathways converge to form C3/C5 convertases that generate C3a, C3b,C5a, and C5b, each with substantial biologic activity. Complement regulators are necessary to prevent the injudicious production of these mediators and potential injury to self-tissue. The plasma proteins CFH, C4-binding protein and the cell membrane proteins complement receptor 1 (CR1; CD35), decay-accelerating factor (CD55), and membrane co-factor protein (CD46) all are members of the regulators of complement activation family. These proteins have natural affinity for C3b and/or C4b, which confers on them the ability to accelerate the intrinsic decay of C3/C5 convertases and/or act as co-factor for the cleavage and inactivation (i) of C3b and C4b by complement factor I (CFI). Genetic human analyses reveals a clear association of 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 age-related macular degeneration (AMD), a disease of the eye.

Immunogen Mouse factor H-human IgG fusion protein

Aliases CFH, Complement Factor H, Protein beta-1-H

Gene Gene name: Cfh, Hf1

Cross reactivity Rat: Yes (Ref.1)

References

1. Vu, D et al; Enhanced Bacteremia in Human Factor H Transgenic Rats Infected by Neisseria meningitides. Infec and Immun 2012, *80*:643

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
Brenda Teunissen	12/11/2019

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