

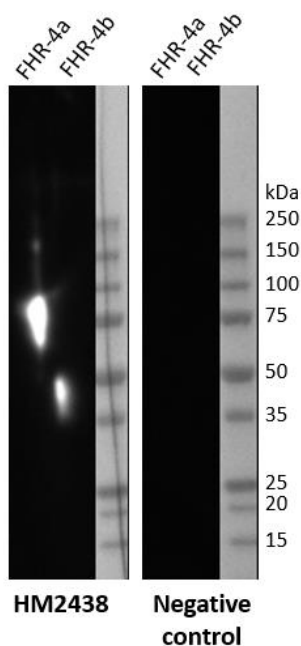
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

| | | | |
|-----------------------|------------------------------------------|----------------------|-----------|
| Product name | FHR-4, Human, mAb 4A.8 | | |
| Catalog number | HM2438-100UG | | |
| Lot number | xxxxxXxxxx-X | Expiry date | MMM YYYY |
| Volume | 1 mL | Amount | 100 µg |
| Formulation | 0.2 µm filtered in PBS+0.02%NaN3+0.1%BSA | 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



W: Western blot analysis performed with human FHR-4 protein with antibody 4.8A (HM2438) at 2 µg/ml.

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.

- W: A reduced sample treatment and SDS-Page was used. The band size for FHR-4a is ~86 and 150 kDa. For FHR-4b the band size is ~43 kDa.

General Information

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| Description | HM2438 (anti-FHR-4; clone 4A.8) is a mouse monoclonal antibody recognizing human full length Complement Factor H-related protein 4 (FHR-4), a glycoprotein found within the complement regulatory protein family. Synthesized and secreted predominantly by the liver but also by immune cells such as monocytes, macrophages, and dendritic cells. FHR-4 is the only FHR for which two splice variants have been reported, giving rise to a long protein (86 kDa) composed of 9 short consensus repeats (SCR) domains and a short protein (42 kDa) composed of 5 SCR domains, named FHR-4A and FHR-4B, respectively. HM2438 recognizes both FHR-4A and FHR-4B. Structurally, FHR-4 shares sequence homology with Complement Factor H (CFH), a central regulator in the complement system. Also FHR-4 operates as part of the complement regulatory network. FHR-4 binds C3b and is therefore able to regulate activation of the complement alternative pathway (AP). In addition, FHR-4 has been shown to play a role in the opsonization of necrotic cells through the binding and recruitment of CRP. Increased systemic FHR-4 levels were shown to be strongly associated with complement-driven age-related macular degeneration (AMD). However, studies also reported inconclusive or contradictory results regarding the involvement of FHR-4 in AMD and further research is needed. | | |
| Immunogen | Human Complement factor H-related protein 4 | | |
| Aliases | CFHL4, CFHR4 | | |
| Gene | Gene name: CFHR4 | Entrez Gene ID: 10877 | Uniprot: Q92496 |
| References | 1. Pouw, RB, et al; Complement Factor H-Related Protein 4A Is the Dominant Circulating Splice Variant of CFHR4, 2018, Front. Immunol. 9:729. doi: 10.3389/fimmu.2018.00729 | | |
| 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 support@hycultbiotech.com.