

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	CFHR1-2, Human, clone JHD-7.10.1	<b>Expiry date</b>	-
<b>Catalog number</b>	HM2301-20UG		
<b>Lot number</b>	-	<b>Amount</b>	20 µg
<b>Volume</b>	200 µl	<b>Concentration</b>	100 µg/ml
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Conjugate</b>	None
<b>Host Species</b>	Mouse IgG1	<b>Purification</b>	Protein G
<b>Endotoxin</b>	N.A.		
<b>Storage</b>	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**

<b>Description</b>	The monoclonal antibody JHD-7.10.1 reacts with human complement factor H-related protein 1 and 2 (CFHR1/2). In humans the complement factor H protein family consists of complement factor H, the factor H-like protein 1 and five factor H-related proteins termed 1 to 5. All members of this group are expressed primarily in the liver and subsequently secreted into plasma. The secreted forms of these proteins are composed exclusively of repetitive protein domains termed short consensus repeats (SCR). The CFHR1 protein is composed of five SCR domains and circulates in plasma as two differentially glycosylated isoforms (37 kDa and 43 kDa). CFHR-2 is composed of four SCRs and is present in human plasma in a non-glycosylated form (24 kDa) and a glycosylated form of 29 kDa. So far the biological functions of both CFHR-1 and CFHR-2 proteins are poorly understood, however recent studies have shown that CFHR1 is a complement regulator that blocks C5 convertase activity as well as assembly and membrane insertion of the terminal components. Moreover, genetic variations in the CFHR1 gene are associated with several diseases such as atypical hemolytic uremic syndrome and age-related macular degeneration. Due to a high degree of amino acid sequence homology the monoclonal antibody is cross-reactive with both CFHR1 and 2.
<b>Aliases</b>	Complement factor H related protein, CFHR.
<b>Cross reactivity</b>	CFHR1: Yes; CFHR2: Yes.
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	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  
28/12/2020

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).