

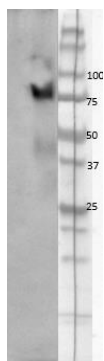
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	FHR4, Human, pAb	Expiry date	-
Catalog number	HP9058-20UG	Amount	20 µg
Lot number	-	Concentration	100 µg/ml
Volume	200 µl	Conjugate	None
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Purification	Protein A
Host Species	Rabbit Ig		
Endotoxin	N.A.		
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: A reduced protocol was used. HP9058 was diluted 1000x.

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 non-reduced and/or reduced sample treatment and SDS-Page was used. The band size is 86 kDa.
- IA: HP9058 can be used as detection antibody.

General Information

Description Polyclonal antibody HP9058 recognizes human complement factor H related protein 4 (FHR4). The complement system is the first line of defense against pathogens and facilitates elimination of apoptotic and damaged cells. Complement factor H (fH) is an abundant plasma protein that negatively regulates the alternative pathway and the C3b amplification loop. The proteins encoded by the fH gene family includes besides fH also five fH-related proteins (FHR1-5), encoded by closely linked but unique genes. Like fH these proteins consist of repeating short consensus repeats (SCRs). fH competes with fB for binding to C3b and C3b(H₂O) thereby blocking the formation of the convertase, accelerates decay of C3-convertases and is a cofactor for fI. The function of FHR proteins is less clear. FHRs are produced primarily in the liver and secreted in the plasma. FHR4 binds to the C3d region of C3b. In contrast to fH, the FHR4-C3b interaction promotes complement activation. Two transcripts of the FHR4 gene exist: FHR4B and FHR4A, consisting of respectively 9 and 5 SCRs (86& 42kDa). Both variants have different binding profiles to C3b. Suggested ligand in complement activation of FHR4 is pentameric CRP.

Immunogen Recombinant FHR4 fragment SCR2-4

Aliases Complement factor H-related protein 4, FHR-4

Gene	Gene name : CFHR4, CFHRL4, FHR4
References	1. Hebecker, M et al; Factor H-Related Protein 4 Activates Complement by Serving as a Platform for the Assembly of an Alternative Pathway C3 Convertase via its Interaction with C3b. J Biol Chem. 2012, 287:19528
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
Brenda Teunissen

Date
31/03/2021

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