

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Ficolin-2, Human, clone GN4		
Catalog number	HM2090-20UG		
Lot number	-	Expiry date	-
Volume	200 µl	Amount	20 µg
Formulation	0.2 µm 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		

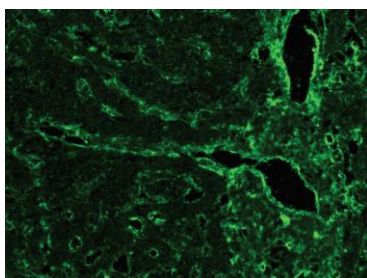
Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #	4						2	
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



IHC-F: Immunohistochemical analysis of Ficolin-2 in frozen rat kidney tissue using mAb GN4 (Cat.# HM2090).



IF: Immunofluorescence with HM2090 on frozen liver sections. Dilution used was 1:100.

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.

- IHC-F: Tissue sections were fixed in acetone and pretreated with peroxidase block of the Dako kit 5 min. in the dark at RT to quench endogenous peroxidases.

General Information

Description The monoclonal antibody GN4 recognizes human Ficolin-2, also known as L-ficolin. Ficolins are a family of pattern recognition molecules containing both a collagen-like domain and a fibrinogen-like domain that are capable of activating the complement system, through association with MASPs, on the surface of microorganisms. In human, three Ficolins are known: Ficolin-1 (M-ficolin), Ficolin-2 (L-ficolin), and Ficolin-3 (H-ficolin). Ficolin-1, is mainly expressed by monocytes, granulocytes and lung cells and is present locally in areas of inflammation. Ficolin-2 (also L-ficolin, ficolin L, EBP-37 or hucolin) is produced primarily by the liver. The association between Ficolin-2 and MASPs/sMAP is Ca²⁺-dependent. MASPs in Ficolin-2 -MASP complexes have proteolytic activities for C4, C2 and C3. Ficolin-2 also shows opsonic activity.

Aliases Ficolin-2/P35, L-ficolin, ficolin L, EBP-37 or hucolin

Cross reactivity Rat: Yes.

- References**
- Matsushita, M et al; Activation of the lectin complement pathway by ficolins. *Int Immunopharmacol* 2001, *1*: 359
 - Matsushita, M et al; Activation of the lectin complement pathway by H-ficolin (Hakata antigen). *J of Immunol* 2002, *168*: 3502
 - Matsushita, M et al; The role of ficolins in innate immunity. *Immunobiol* 2002, *205*: 490

- Eikmans, M et al; The Functional Polymorphism Ala258Ser in the Innate Receptor Gene Ficolin-2 in the Donor Predicts Improved Renal Transplant Outcome. *Transplantation* 2012, *94*:478

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
16/11/2020

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