

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	C7, Human, clone WU 4-15		
Catalog number	HM2277		
Lot number	-	Expiry date	-
Volume	1 ml	Amount	100 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	<24 EU/mg	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

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

Description	The monoclonal antibody WU 4-15 recognizes C7, one of the components of the terminal complement complex (TCC), also known as the membrane attack complex (MAC). Proteolytic cleavage of C5 by C5 convertase generates C5b which initiates assembly of the C5b-9 MAC. This complex is assembled from five precursor molecules in the serum, finalized with the polymerization of C9 which accompanies insertion of the complex into the cell membrane causing cellular lysis. C7 occupies an important position in the TCC cascade. C7 undergoes a hydrophilic-amphiphilic transition following activation. It enables the developing MAC to bind directly to target cell membranes. C7 has been shown to exhibit genetic polymorphism. Polymorphonuclear leukocytes represent a major source of C7. The fact that inflammatory cells have the potential to secrete C7 suggests an important role for locally produced complement in the inflammatory process. The monoclonal antibody WU 4-15 identifies a specific allotype of C7: C7 M. 62% of the caucasians is homozygous for C7 M, 31% heterozygous. Antibody Wu 4-15 enables to quantify the contribution of locally synthesized C7 to the inflammatory process and to identify the allotype.
Immunogen	Human C7.
References	<ol style="list-style-type: none"> Würzner R et al; Inhibition of terminal complement complex formation and cell lysis by monoclonal antibodies. <i>Complement and Inflammation</i> 1991, 8: 328 Würzner R et al; Functionally active complement proteins C6 and C7 detected in C6- or C7- deficient individuals. <i>Clin and Exp Immunol</i> 1991, 83: 430 Würzner R et al; Blood dendritic cells carry terminal complement complexes on their cell surface as detected by newly developed neoepitope-specific monoclonal antibodies. <i>Immunology</i> 1991, 74: 132 Høgåsen AKM et al; Human polymorphonuclear leukocytes store large amounts of C7 and C6 which may be released on stimulation. <i>J of Immunol</i> 1995, 154: 4734 Würzner R et al; Complement C7: assessment of in-vivo synthesis after liver transplantation reveals that hepatocytes do not synthesise the majority of human C7. <i>Journal of Immunol</i> 1994, 152: 4624 Würzner R et al; Molecular basis of the complement C7 M/N polymorphism: a neutral amino acid substitution outside the epitope of the allospecific monoclonal antibody WU 4-15. <i>J. Immunol.</i> 1995, 154: 4813
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
Robbert Zwinkels

Date
08/03/2018

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