

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	C6, Rat, clone 3G11	Expiry date	-
Catalog number	HM3034-20UG		
Lot number	-	Amount	20 µg
Volume	200 µl	Concentration	100 µg/ml
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Conjugate	None
Host Species	Mouse IgG1	Purification	Protein G
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

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 3G11 reacts specifically with rat C6. Proteolytic cleavage of C5 by C5 convertase generates C5b which initiates assembly of the C5b-9 membrane attack complex. Complement component C6 is part of this C5b-9 complex. This complex is assembled from five precursor molecules in the serum. The final step of C5b-9 complex formation involves polymerization of C9 which accompanies insertion of the complex into the cell membrane. The rat remnant kidney model had been widely used to identify mechanisms responsible for the progression of renal disease. Proteinuria is nephrotoxic and contributes to the progression of renal injury. Activation of complement in proteinuric urine results in tubular and interstitial damage. In C6-deficient rats, acute interstitial changes resolved despite ongoing proteinuria. This suggests that C6 mediates chronic progression of tubulointerstitial damage in rats with remnant kidneys. The monoclonal antibody 3G11 was raised by immunization of mice with C6 isolated from rat serum. Monoclonal antibody 3G11 can be used as detector in immuno assays detect C5b-9 in both serum and urine

- References**
- Schulze, M et al. Increased urinary excretion of C5b-9 distinguishes passive Heymann nephritis in the rat. *Kidney Int.* 1989, *35*: 60
 - Baker, P et al; Depletion of C6 prevents development of proteinuria in experimental membranous nephropathy in rats. *Am J Pathol* 1989, *135*: 185
 - Sato, T et al; The terminal sequence of complement plays an essential role in antibody-mediated renal cell apoptosis. *J Am Soc Nephrol* 1999, *10*: 1242

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
11/01/2021

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