

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	C9, Mouse, clone C9-6-25-5	<b>Expiry date</b>	-
<b>Catalog number</b>	HM1134-20UG		
<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>	Rat IgG2a	<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.

- W: A reduced sample treatment and SDS-Page was used. The band size is 72 kDa.

**General Information**

**Description** The monoclonal antibody C9-5-48 recognizes mouse complement component C9. The complement system is an ancient proinflammatory and microbial destruction system, that may be considered part of both the innate and adaptive immune systems. It consists of the classical, alternative, and lectin-binding pathways. Each pathway is triggered in a distinct manner, yet all deposit C3 fragments on a target and engage a common terminal sequence called TCC or the "membrane attack complex" (MAC). In contrast to the activation pathways, which require enzymatic cleavage for activation, the terminal pathway relies on conformational changes induced by binding of the different subunits. TCC is composed of a complex of four complement proteins (C5b, C6, C7, and C8) which bind to the outer surface of the target plasma membrane, and many copies of a fifth protein (C9) that hook up to one another, forming a ring in the membrane. The ring structure formed by C9 is a pore in the membrane that allows free diffusion of molecules in and out of the cell. If enough pores form, the cell is no longer able to survive. The membrane attack complex is initiated when the complement protein, C5 convertase, cleaves C5 into C5a and C5b. Binding of C6 facilitates binding of C7 which alters the conformation of the complex. After binding of C8, a variable number of C9 molecules associate with the C5b678 complex, together constituting TCC. The formation of TCC causes lysis of cells or can trigger a variety of cellular metabolic pathways resulting in the synthesis and release of inflammatory mediators.

**Immunogen** Murine C9 peptide

**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  
13/07/2021

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