CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	CR1/CR2, Mouse, clone 7E9		
Catalog number	HM1112-20UG		
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	Rat IgG2a	**Conjugate**	None
Endotoxin	N.A.	**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 7E9 recognizes mouse complement receptors type 1 (CR1) and 2 (CR2). CR1 and CR2 are cell surface glycoproteins that are capable of binding to activation fragments of the third and/or fourth complement components (C3 and/or C4). They play a role in the clearance of immune-complexes, phagocytosis, complement regulation, and immunoregulation. Mouse CR1 (MCR1, 190 kD) is found on the surface of B-lymphocytes, follicular dendritic cells and at lower levels on peritoneal macrophages and activated granulocytes. MRC1 has binding activity for C3b and serves as a cofactor for factor I-mediated cleavage of C3b. Mouse CR2 (MCR2, 150 kD) is a type I transmembrane glycoprotein that binds complement fragments (C3d(g), iC3b) and interferon (IFN)-alpha. MCR2 is expressed on B-lymphocytes and probably on follicular dendritic cells. On human B lymphocytes it acts as the Epstein-Barr virus (EBV) receptor. MCR2 mediates the formation of rosettes between B-lymphocytes and E-bearing Crd. MCR1 and MRC2 are very closely related. They are both products of a single gene, Cr2, formed by alternative splicing of mRNA. MCR2 corresponds to the carboxy-terminal portion of MCR1. This is in contrast with human CR1 (CD35) and CR2. The monoclonal antibody 7E9 does not inhibit rosette formation between 2PK3 cells and Crd-coated SRBC indicator cells.

Immunogen

Purified mouse CR1 from serum

Aliases

CR1, CD35, KN, CR2, CD21

References

1. Kinoshita, T et al; Monoclonal antibodies to mouse complement receptor type 1 (CR1): their use in a distribution study showing that mouse erthrocytes and platelets are CR1-negative. J Immunol 1988, 140: 3066
2. Kinoshita, T. et al; Characterization of murine complement receptor type 2 (CR2) and its immunological cross-reactivity with type 1 receptor (CR1). Inter Immunol 1990, 2: 651
3. Pramoonjago, P. et al; Ligand specificities of mouse complement receptors type 1 (CR1) and type 2 (CR2) purified from spleen cells. Int Immunol 1993, 5: 337
4. Hoefer, M et al; Modulation of murine complement receptor type 2 (CR2/CD21) ectodomain shedding by its cytoplasmic domain. Mol Immunol 2008, 45: 2127

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	Date
Brenda Teunissen	11/11/2020

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