CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	RBC, Mouse, clone 34-3C		
Catalog number	HM1120-100UG		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA	**Concentration**	100 µg/ml
Host Species	Mouse IgG2a	**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 #				2,3	1,2,4,5			
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.

- Positive control: Mouse erythrocytes

General Information

Description The monoclonal antibody 34-3C recognizes an exposed surface determinant of intact red blood cells (RBC). The high-affinity anti-RBC monoclonal antibody efficiently bind to Fc receptors on macrophages inducing anemia in vivo due to a rapid Fc receptor (FcyR)-mediated erythrophagocytosis of opsonised RBC in spleen and livers. The capacity of the antibody to interact with FcyR is responsible for its haemolytic activity. The monoclonal antibody only recognises antigenic determinants expressed on Mouse RBC and not on other species of RBC.

Immunogen RBC

Cross reactivity Rat: No; Sheep: No; Rabbit: No; Chicken: No; Human: No

References

1. Shibata, T et al; Monoclonal anti-erythrocyte autoantibodies derived from NZB mice cause autoimmune haemolytic anemia by two distinct pathogenic mechanisms. Int. Immun. 1990, *2*:1133
2. Fossati-Jimack, L et al; High pathogenic potential of low-affinity autoantibodies in experimental autoimmune haemolytic anemia. J. Exp. Med. 1990, *190*:1689
3. Fossati-Jimack, L et al; Selective increase of autoimmune epitope expression on aged erythrocytes in mice: Implications in anti-erythrocyte autoimmune responses. J. Autoimmun. 2002, *18*:17
4. Azeredo da Silveira, S et al; Complement activation selectively potentiates the pathogenicity of the IgG2b and IgG3 isotypes of a high-affinity anti-erythrocyte autoantibody. J. Exp. Med. 2002, *195*:665
5. Baudino, L et al; Differential contribution of three different activating IgG Fc receptors (FcyRI, FcyRIII and FcyRIV) to IgG2a- and IgG2b-induced autoimmune haemolytic anemia in mice. J. Immunol. 2008, *180*:1948

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
12/11/2019

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