

Mouse RBC Monoclonal Antibody | anti-RBC antibody

RBC, Mouse, mAb 34-3C

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77788	Mouse	Rat: No; Sheep: No; Rabbit: No; Chicken: No; Human: No	Functional Assay, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

RBC; Monoclonal Antibody; Mouse; mAb 34-3C; anti-RBC antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat: No; Sheep: No; Rabbit: No; Chicken: No; Human: No
Clonality	Monoclonal
Isotype	Mouse IgG2a
Purity/Purification	Protein G
Form/Format	1 ml (100 ug/ml) 0.2 um filtered antibody solution in PBS, containing 0.1% bovine serum. For unit size 0.5 mg or larger: PBS only (concentration< 0.5mg/ml)
Concentration	100 ug/ml (varies by lot)
Applicable Applications for anti-RBC antibody	FA (Functional Assay), FCM/FACS (Flow Cytometry)
Immunogen	RBC
Endotoxin	<0.4 EU/mg
Positive Control	Mouse erythrocytes
Preparation and Storage	Product should be stored at 4 degree C. Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

ADDITIONAL INFORMATION

Related Product Information for anti-RBC antibody	Product 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 (FcγR)-mediated erythrophagocytosis of opsonised RBC in spleen and livers. The capacity of the antibody to interact with FcγR is responsible for its haemolytic activity. The monoclonal antibody only recognises antigenic determinants expressed on Mouse RBC and not on other species of RBC.
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 (FcγRI, FcγRIII and FcγRIV) to IgG2a- and IgG2b-induced autoimmune haemolytic anemia in mice. J. Immunol. 2008, 180:1948

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rbc-antibody-functional-assay-flow-cytometry-elisa/77788>