Datasheet for ABIN2191860

anti-Red Blood Cell antibody

4 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	Red Blood Cell (RBC)
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Red Blood Cell antibody is un-conjugated
Application:	Flow Cytometry (FACS), Functional Studies (Func)

Product Details

Clone:	34-3C
Isotype:	IgG2a
Cross-Reactivity (Details):	Cross reactivity: Rat, sheep, rabit, chicken, human : No
Sterility:	0.2 µm filtered

Target Details

Target:	Red Blood Cell (RBC)
Alternative Name:	Rbc (RBC Products)
Background:	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

Target Details

	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. Immunogen RBC

Application Details

Application Notes:	For flow cytometry 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. For functional studies, in vitro dilutions have to be optimized in user's experimental setting. Positive Mouse erythrocytes control
Restrictions:	For Research Use only

Handling

Buffer:	PBS, containing 0.1 % bovine serum albumin.
Storage:	4 °C
Storage Comment:	Product should be stored at 4 °C Under recommended storage conditions, product is stable for at least one year. The exact expiry date is indicated on the label.

Publications

Product cited in:	Baudino, Nimmerjahn, Azeredo da Silveira, Martinez-Soria, Saito, Carroll, Ravetch, Verbeek, Izui: " Differential contribution of three activating IgG Fc receptors (FcgammaRI, FcgammaRIII, and FcgammaRIV) to IgG2a- and IgG2b-induced autoimmune hemolytic anemia in mice." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 180, Issue 3, pp. 1948-53, (2008) (PubMed). Fossati-Jimack, Azeredo da Silveira, Moll, Kina, Kuypers, Oldenborg, Reininger, Izui: "Selective increase of autoimmune epitope expression on aged erythrocytes in mice: implications in anti-erythrocyte autoimmune responses." in: **Journal of autoimmunity**, Vol. 18, Issue 1, pp. 17-25, (2002) (PubMed). Azeredo da Silveira, Kikuchi, Fossati-Jimack, Moll, Saito, Verbeek, Botto, Walport, Carroll, Izui: " Complement activation selectively potentiates the pathogenicity of the IgG2b and IgG3 isotypes of a high affinity anti-erythrocyte autoantibody." in: **The Journal of experimental medicine**, Vol. 195, Issue 6, pp. 665-72, (2002) (PubMed).

Shibata, Berney, Reininger, Chicheportiche, Ozaki, Shirai, Izui: "Monoclonal anti-erythrocyte autoantibodies derived from NZB mice cause autoimmune hemolytic anemia by two distinct pathogenic mechanisms." in: **International immunology**, Vol. 2, Issue 12, pp. 1133-41, (1991) (PubMed).