

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse C1q R1/CD93 in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 223437
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse C1q R1/CD93 Ala23-Asn572 Accession # O89103
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	M1 mouse myeloid leukemia cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Complement component 1, q subcomponent receptor (C1q R1), also known as C1q Rp, Collectin receptor and AA4 antigen in rodents, mediates enhanced phagocytosis by monocytes and macrophages upon interaction with soluble defense collagens including C1q, MBL (mannose-binding lectin) and SP-A (pulmonary surfactant protein A) (1, 2). It is a type I transmembrane glycoprotein expressed on endothelial cells, hematopoietic progenitor cells, platelets and cells of myeloid origin. C1q R1 has also been identified as a stem cell marker (3, 4).

References:

1. Kim, T.S. *et al.* (2000) *Mol. Immunol.* **37**:377.
2. Dean, Y.D. *et al.* (2001) *Eur. J. Immunol.* **31**:1370.
3. Petrenko, O. *et al.* (1999) *Immunity* **10**:691.
4. Danet, G.H. *et al.* (2002) *Proc. Natl. Acad. Sci. USA* **99**:1044.

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