

#### DESCRIPTION

|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human  |
| <b>Specificity</b>        | Detects human C1q R1/CD93 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse C1q R1 is observed.   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 273107   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human C1q R1/CD93<br>Ala24-Lys580<br>Accession # Q9NPY3  |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|                       | <b>Recommended Concentration</b> | <b>Sample</b>               |
|-----------------------|----------------------------------|-----------------------------|
| <b>Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | Human whole blood monocytes |

#### PREPARATION AND STORAGE

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

#### BACKGROUND

C1q R1 is also known as C1q Rp, Collectin Receptor, and AA4 antigen, and is designated CD93. C1q R1 mediates enhanced phagocytosis by monocytes and macrophages upon interaction with soluble defense collagens including C1q, MBL, and SP-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**:10441.

#### PRODUCT SPECIFIC NOTICES

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