

## 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 Ala24-Lys580 Accession # Q9NPY3
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## 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>Western Blot</b>	1 µg/mL	Recombinant Human C1q R1/CD93 under non-reducing conditions only
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	Human whole blood monocytes

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</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:

- Kim, T.S. *et al.* (2000) Mol. Immunol. **37**:377.
- Dean, Y.D. *et al.* (2001) Eur. J. Immunol. **31**:1370.
- Petrenko, O. *et al.* (1999) Immunity **10**:691.
- Danet, G.H. *et al.* (2002) Proc. Natl. Acad. Sci. USA **99**:10441.