

## Monoclonal Antibody to CD14 - PE

<b>Alternate names:</b>	Monocyte differentiation antigen CD14, Myeloid cell-specific leucine-rich glycoprotein
<b>Catalog No.:</b>	AM05664RP-N
<b>Quantity:</b>	100 Tests
<b>Background:</b>	CD14 is a 55kD a glycoposphoinositol-linked cell surface protein that also exists in a soluble form. Expression of CD14 is restricted to the myeloid lineage and is predominantly expressed on peripheral blood monocytes, weakly expressed on granulocytes and absent on myeloid progenitors. The CD14 molecule acts as a pattern recognition receptor, which binds lipopolysaccharide (LPS) and other microbial products such as lipoteichoic acid, lipoproteins and peptidoglycan. Binding of LPS to CD14 mediates the innate immune response to LPS and requires the Toll-like receptor-4 (TLR4)/MD-2 complex for effective signalling.
<b>Uniprot ID:</b>	<a href="#">P10810</a>
<b>NCBI:</b>	<a href="#">10090</a>
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	biG53
<b>Immunogen:</b>	Recombinant Mouse CD14
<b>Format:</b>	<b>State:</b> Lyophilised purified IgG fraction <b>Purification:</b> Affinity Chromatography on Protein G <b>Buffer System:</b> PBS pH 7.4 containing 0.09% Sodium Azide and 1% BSA <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1ml distilled water
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 1x10 <sup>6</sup> cells in 100 µl. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD14. Antibodies produced by biG53 are reported to inhibit the binding of CD14. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody at 2-8°C. <b>DO NOT FREEZE!</b> Shelf life: one year from despatch.

Pictures:

Flow Cytometry: Staining of Mouse peripheral blood monocytes with Mouse Anti Mouse CD14: RPE (AM05664RP-N).

