

ARG53767 anti-CD14 antibody [MEM-18] (PE)

Package: 100 tests
Store at: 4°C

Summary

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|---------------------|---|
| Product Description | PE-conjugated Mouse Monoclonal antibody [MEM-18] recognizes CD14 |
| Tested Reactivity | Hu, NHuPrm |
| Tested Application | FACS |
| Specificity | <p>The clone MEM-18 reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages. In human, the epitope recognized by MEM-18 is located between amino acids 57-64.</p> <p>HLDA III; WS Code M 253 HLDA IV; WS Code M 314 HLDA V; WS Code M MA087 HLDA VI; WS Code M MA95</p> |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | MEM-18 |
| Isotype | IgG1 |
| Target Name | CD14 |
| Species | Human |
| Immunogen | A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria. |
| Conjugation | PE |
| Alternate Names | CD antigen CD14; Myeloid cell-specific leucine-rich glycoprotein; Monocyte differentiation antigen CD14 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|-------------------------------|
| | FACS | 20 µl / 10 ⁶ cells |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

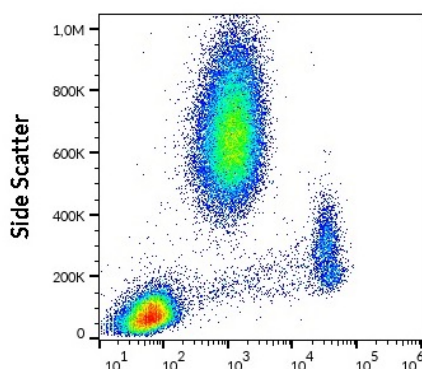
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|-------------------|---|
| Form | Liquid |
| Purification Note | The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |

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| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|---|
| Database links | GeneID: 929 Human Swiss-port # P08571 Human |
| Gene Symbol | CD14 |
| Gene Full Name | CD14 molecule |
| Background | CD14 is a 55 kDa GPI-anchored glycoprotein, constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils, where serves as a multifunctional lipopolysaccharide receptor; it is also released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. CD14 binds lipopolysaccharide molecule in a reaction catalyzed by lipopolysaccharide-binding protein (LBP), an acute phase serum protein. The soluble sCD14 is able to discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. CD14 affects allergic, inflammatory and infectious processes. |
| Function | In concert with LBP, binds to monomeric lipopolysaccharide and delivers it to the MD-2/TLR4 complex, thereby mediating the innate immune response to bacterial lipopolysaccharide (LPS). Acts via MyD88, TIRAP and TRAF6, leading to NF-kappa-B activation, cytokine secretion and the inflammatory response. Up-regulates cell surface molecules, including adhesion molecules. [UniProt] |
| Research Area | Developmental Biology antibody; Immune System antibody; General Lymphocyte Marker Study antibody; Macrophages and neutrophils antibody |
| Calculated Mw | 40 kDa |
| PTM | N- and O- glycosylated. O-glycosylated with a core 1 or possibly core 8 glycan. |

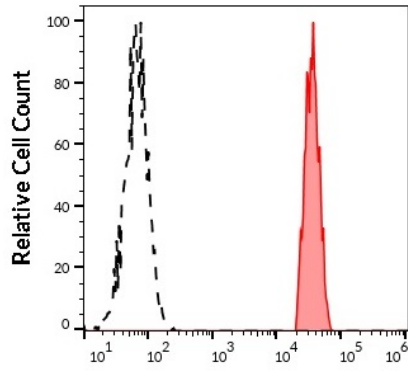
Images



ARG53767 anti-CD14 antibody [MEM-18] (PE) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG53767 anti-CD14 antibody [MEM-18] (PE) (20 µl reagent / 100 µl of peripheral whole blood).

ARG53767 anti-CD14 antibody [MEM-18] (PE) FACS image



Flow Cytometry: Separation of human monocytes (red-filled) from lymphocytes (black-dashed). Human peripheral whole blood stained with ARG53767 anti-CD14 antibody [MEM-18] (PE) (20 μ l reagent / 100 μ l of peripheral whole blood).