

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

10-4077-NALE: NALE™ Monoclonal antibody to Human CD14 (Clone: RPA-M1) (No Azide Low Endotoxin)

Clonality: Monoclonal
Clone Name: RPA-M1
Application: FACS
Reactivity: Human
Gene: CD14
Gene ID: 929
Uniprot ID: P08571

Format: Azide Free, Purified

Alternative Name: CD14

Isotype: Mouse IgG1 Kappa

Immunogen Information: Human PHA-stimulated PBMC were used as an immunogen for this antibody.

Description

CD14 antigen is a GPI (Glycosyl-Phosphatidylinositol)-linked glycoprotein and has been shown to be critically important in the signaling pathways of TLR (Toll-like receptor). CD14 expression in BC (Bladder Cancer) subpopulation of cancer cells is required for increased cytokine production and increased tumor growth. Furthermore, tumors formed by CD14-high cells are more highly vascularized with higher myeloid cell infiltration. Inflammatory factors produced by CD14-high BC cells recruit and polarize monocytes and macrophages to acquire immune-suppressive characteristics. CD14 is located on the surface of immune response cells in the lungs as well as other organs. Both TLR4 and CD14 genes are codependent with MD2 in their roles as signalers of other mediators in the innate response to pathogens. It has a central role in innate immunity, as it can interact with several ligands, including LPS from gram-negative bacteria, components from gram-positive bacteria, fungi, and viruses. CD14 has also been suspected to be a crucial link between innate and adaptive immunity in response to environmental antigens.

Product Info

Amount : 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing No azide, low endotoxin <0.1EU/1ug).

Storage condition : Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

FACS Analysis: 0.5-1 μg/10⁶ cells



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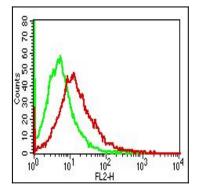


Fig:1- Cell surface flow analysis of hCD14 in human PBMC using 0.5 μ g/10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD14 antibody (10-4077). Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.