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10-4077: Monoclonal antibody to Human CD14 (Clone: RPA-M1)

Clonality :	Monoclonal
Clone Name :	RPA-M1
Application :	FACS
Reactivity :	Human
Gene :	CD14
Gene ID :	929
Uniprot ID :	P08571
Format :	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 :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
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/10^6 cells

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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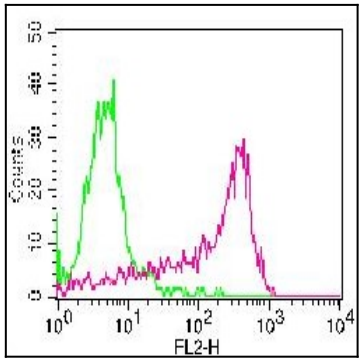

Fig:1- Cell surface flow analysis of hCD14 in human PBMC using 0.5 µg/10^6 cells. Green represents isotype control (ABEOMICS); red represents anti-hCD14 antibody (10-4077). Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.

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