

CD14 Monoclonal Antibody (Sa14-2), APC

Catalog NumberA14918

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2a	Tested Applications	
Class	Monoclonal	Dilution *	
Type	Antibody	Flow Cytometry (Flow)	Assay-dependent
Clone	Sa14-2	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Transfected CD14 antigen.		
Conjugate	APC		
Form	Liquid		
Concentration	0.2 mg/mL		
Storage Conditions	4° C		

**Background/Target Information**

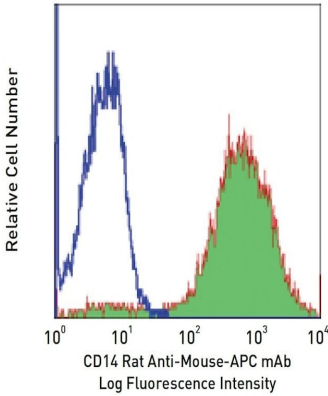
CD14 is a 55 kDa GPI-anchored glycoprotein that is constitutively expressed on the surface of mature monocytes, macrophages, and neutrophils. CD14 also serves as a multifunctional lipopolysaccharide receptor, and is released to the serum both as a secreted and enzymatically cleaved GPI-anchored form. CD14 binds lipopolysaccharide molecule in a reaction catalyzed by lipopolysaccharide-binding protein (LBP), an acute phase serum protein. The soluble sCD14 can discriminate slight structural differences between lipopolysaccharides and is important for neutralization of serum allochthonous lipopolysaccharides by reconstituted lipoprotein particles. Further, CD14 has been shown to bind apoptotic cells, and can affect allergic, inflammatory and infectious processes. Alternative splicing results in multiple transcript variants encoding the same CD14 isoform. Diseases associated with CD14 dysfunction include mycobacterium chelonae infection and Croup.

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**CD14 Antibody (A14918) in Flow**  
Thioglycolate-elicited Balb/c mouse peritoneal macrophages stained with CD14 Rat Anti-Mouse-APC Monoclonal Antibody (Cat. no. A14918).

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