



Anti-CD14 monoclonal antibody, clone biG53 [R-PE] (CABT-45608MM)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Mouse anti Mouse CD14 antibody, clone biG53 recognizes mouse CD14, 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. Mouse anti Mouse CD14 antibody, clone biG53 inhibits the binding of CD14. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	CD14
Immunogen	Recombinant mouse CD14
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Mouse
Clone	biG53
Conjugate	PE
Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests

Preservative	0.09% Sodium Azide
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Cd14 CD14 antigen [Mus musculus (house mouse)]
Official Symbol	CD14
Synonyms	CD14; CD14 antigen; monocyte differentiation antigen CD14; myeloid cell-specific leucine-rich glycoprotein;
Entrez Gene ID	12475
Protein Refseq	NP_033971
UniProt ID	P10810
Chromosome Location	18 B2; 18 19.46 cM
Pathway	Activated TLR4 signalling; Activation of IRF3/IRF7 mediated by TBK1/IKK epsilon; Amoebiasis; Hematopoietic cell lineage; IKK complex recruitment mediated by RIP1; Immune System; Innate Immune System; Legionellosis;
Function	lipopolysaccharide binding; lipoteichoic acid binding;