CD Creative Diagnostics®

# Anti-CD14 monoclonal antibody, clone CC-G33 [FITC] (CABT-45563MB)

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

## PRODUCT INFORMATION

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| **Product Overview** | Mouse anti Bovine CD14, clone CC-G33 is a monoclonal antibody recognizing bovine CD14, a GPI-anchored membrane glycoprotein and monocyte/macrophage differentiation antigen, belonging to the lipopolysaccharide receptor family, also expressed weakly on microglia and Langerhans cells. CD14 acts as a receptor for the potent bacterial endotoxin, lipopolysaccharide (LPS), facilitated by LPS-binding protein (LBP). The binding of LPS to CD14 results in cell activation and the release of cytokines and the inflammatory response, and has been shown to upregulate the cell surface expression of adhesion molecules. Mouse anti Bovine CD14 clone CC-G33 cross-reacts with human CD14 expressed on transfected COS-7 cells, and also recognises an epitope on ovine CD14. CC-G33 has also been shown to be reactive with CD14 from the Water buffalo. Flow Cytometry Use 10ul of the suggested working dilution to label 1x106 cells in 100ul. |
| **Specificity** | CD14 |
| **Immunogen** | Partially purified polypeptides isolated from bovine leucocyte cell surface membrane. |
| **Isotype** | IgG1 |
| **Source/Host** | Mouse |
| **Species Reactivity** | Bovine, Human, Sheep, Water Buffalo |
| **Clone** | CC-G33 |
| **Conjugate** | FITC |
| **Applications** | FC |
| **Format** | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid |

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| **Size** | 100 µg |
| **Preservative** | See individual product datasheet |
| **Storage** | in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. |

# GENE INFORMATION

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| **Gene Name** | CD14 CD14 molecule [ Bos taurus (cattle) ] |
| **Official Symbol** | CD14 |
| **Synonyms** | CD14; monocyte differentiation antigen CD14; CD14 antigen; myeloid cell-specific leucine-rich glycoprotein; |
| **Entrez Gene ID** | 281048 |
| **Protein Refseq** | NP_776433 |
| **UniProt ID** | Q95122 |
| **Chromosome Location** | chromosome: 7 |
| **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; |

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