

DESCRIPTION

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| Species Reactivity | Porcine/Equine |
| Specificity | Detects porcine CD14 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CD14 and recombinant mouse CD14 is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 433423 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant porcine CD14 |
| Conjugate | Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm |
| Formulation | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|----------------------------------|---|
| Flow Cytometry | 0.25-1 µg/10 ⁶ cells | Porcine peripheral blood mononuclear cells (untreated) and equine peripheral blood mononuclear cells (PBMCs) treated with PMA and Calcium Ionomycin |

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied. |

BACKGROUND

CD14 is a 55 kDa GPI-linked cell surface glycoprotein that is preferentially expressed on monocytes/macrophages. It is a pattern recognition protein that acts as a receptor for lipopolysaccharide (LPS) and other microbial cell wall components. CD14 also occurs as a secreted protein. Mature porcine CD14 shares 70-75% aa identity with human, cow, sheep, water buffalo and horse CD14 and 61-62% aa identity with mouse and rat CD14.

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