

DESCRIPTION

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

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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