

#### DESCRIPTION

<b>Species Reactivity</b>	Porcine/Equine
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 433423
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant porcine CD14
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> 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.**

- 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.

#### PRODUCT SPECIFIC NOTICES

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