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## Purified Mouse anti-Human CD14 Monoclonal Antibody

**CLX19AP**

**Lot:** A0160804

**Size:** 0.1 mg

**Clone:** MEM-18

**Isotype:** Mouse IgG1

**Specificity:** The antibody MEM-18 reacts with CD14, a 53-55 kDa GPI (glycosylphosphatidylinositol)-linked membrane glycoprotein expressed on monocytes, macrophages and weakly on granulocytes; also expressed by most tissue macrophages.

**HLDA III; WS Code M 253**

HLDA IV; WS Code M 314

HLDA V; WS Code M MA087

HLDA VI; WS Code M MA95

**Immunogen:** A crude mixture of human urinary proteins precipitated by ammonium sulphate from the urine of a patient suffering from proteinuria.

**Species Reactivity:** Human, Non-Human Primates

**Application:** **Flow Cytometry**  
**Immunoprecipitation**  
**Western Blotting**  
*Application note:* Non-reducing conditions.

**ELISA**

The antibody MEM-18 has been tested as the detection antibody in a sandwich ELISA for analysis of human CD14 in combination with antibody B-A8 (CLX21AP).

**Functional Application**

The antibody MEM-18 completely blocks binding of fluorescein (FITC) labeled bacterial LPS to the monocyte surface and it also blocks the binding of CD14 to the extracellular TLR2 domain.

*Continued Overleaf...*

For more information or to place an order please contact...

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<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from ascites by precipitation methods.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Background:</b>	CD14 antigen (lipopolysaccharide receptor).
<b>References:</b>	<p>*Sundan A, Gullstein-Jahr T, Otterlei M, Ryan L, Bazil V, Wright SD, Espevik T.: Soluble CD14 from urine copurifies with a potent inducer of cytokines. <i>Eur J Immunol.</i> 1994 Aug;24(8):1779-84.</p> <p>*Bazil V, Horejsi V, Baudys M, Kristofova H, Strominger JL, Kostka W, Hilgert I.: Biochemical characterization of a soluble form of the 53-kDa monocyte surface antigen. <i>Eur J Immunol.</i> 1986 Dec;16(12):1583-9.</p> <p>*Leukocyte Typing III., McMichael A.J. et al. (Eds.), Oxford University Press (1987).</p> <p>*Bazil V, Baudys M, Hilgert I, Stefanova I, Low MG, Zbrozek J, Horejsi V.: Structural relationship between the soluble and membrane-bound forms of human monocyte surface glycoprotein CD14. <i>Mol Immunol.</i> 1989 Jul;26(7):657-62.</p> <p>*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).</p> <p>*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).</p> <p>*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).</p> <p>*Iwaki D, Nishitani C, Mitsuzawa H, Hyakushima N, Sano H, Kuroki Y.: The CD14 region spanning amino acids 57-64 is critical for interaction with the extracellular Toll-like receptor 2 domain. <i>Biochem Biophys Res Commun.</i> 2005 Mar 4;328(1):173-6.</p>

**Laboratory Reagent For Research Use Only**