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FITC Mouse Anti-Human CD47 **Monoclonal Antibody**

CLX53F Lot:

MEM-122 Clone:

Isotype: Mouse IgM

Specificity: The antibody MEM-122 reacts with CD47 (Integrin Associated Protein), a 50-55

> kDa membrane adhesion molecule (thrombospondin receptor; immunoglobulin supergene family) expressed on leukocytes, platelets and erythrocytes. It is also expressed on epithelial cells, endothelial cells, fibroblasts and many tumor cell

HLDA VI; WS Code AS A051

Immunogen: COS-7 (African green monkey) cells.

Species Reactivity: Human, Non-Human Primates, Porcine

The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under **Preparation:**

optimum conditions. The reagent is free of unconjugated FITC and adjusted for

direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in phosphate buffered saline (PBS) containing 15 mM

sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin

(BSA) as a stabilizing agent.

Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

Do not use after expiration date stamped on vial label.

Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those

specified, the conditions must be verified by the user.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using

20 µl reagent / 100 µl of whole blood or 106 cells in a suspension.

The content of a vial (2 ml) is sufficient for 100 tests.

Continued Overleaf...

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Background:

CD47 (integrin-associated protein, IAP) is an ubiquitously expressed cell surface transmembrane glycoprotein interacting with several integrins and regulating their functions. Engagement of CD47 by soluble ligands or counter receptors modulates various signaling pathways, such as activation of heterotrimeric G proteins. Binding secreted thrombospondin-1, CD47 counteracts graft vascularization. CD47 acts also as a ligand for CD172a (signal regulatory protein alpha, SIRP alpha), an immune inhibitory receptor on macrophages; this interaction prevents phagocytosis of CD47-positive cells. Moreover, CD47-CD172a system affects cell migration, B cell adhesion and T cell activation. CD47 is also involved in modulation of chondrocyte responses to mechanical signals, and promotes neuronal development, being especially abundant in synapse-rich regions of brain and retina.

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Laboratory Reagent For Research Use Only

JV 06/28/10