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Purified Mouse anti-CD47 (Integrin Associated Protein) Monoclonal Antibody

CLX53AP

Lot:

Clone: MEM-122

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 lines.

HLDA VI; WS Code AS A051

Immunogen: COS-7 (African green monkey) cells

Species Reactivity: Human, Non-Human Primates, Porcine

Application: **Flow Cytometry**
Western Blotting
Application note: Non-reducing conditions.
Immunohistochemistry (frozen sections)

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by CHT-chromatography and precipitation methods.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. Do not freeze.

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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