

Product datasheet for **SM3026P**

CD47 Mouse Monoclonal Antibody [Clone ID: MEM-122]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-122
Applications:	FC, IHC, WB
Recommended Dilution:	Flow cytometry: Recommended dilution: 1-4 µg/ml. Western blotting: Non-reducing conditions.
Reactivity:	Human, Porcine
Host:	Mouse
Isotype:	IgM
Clonality:	Monoclonal
Immunogen:	COS-7 (African green monkey) cells.
Specificity:	The antibody 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.
Formulation:	PBS, pH~7.4 State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 15 mM Sodium Azide
Concentration:	lot specific
Purification:	CHT-Chromatography and Precipitation Methods
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD47 molecule
Database Link:	Entrez Gene 961 Human Q08722



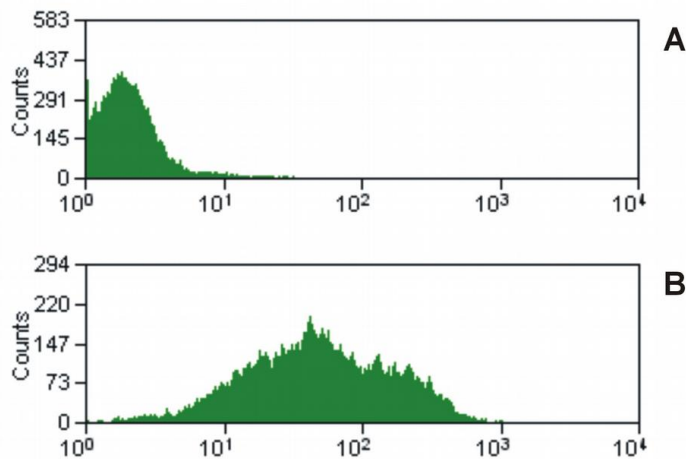
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Background:

CD47 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 a, SIRPa), 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.

Synonyms:

MER6, IAP, OA3

Product images:


Surface staining of lysed and washed porcine peripheral blood with purified anti-CD47 (MEM-122) (detection by anti-mouse IgM FITC). Panel A - porcine PBMC stained with Isotype mouse IgM control Panel B, C, D - porcine PBMC sample stained with anti-CD47 (MEM-122) Cells in the granulocyte gate were used for analysis.