

Anti-Hu CD47 Purified Monoclonal Antibody

Catalog Number: M00360-1

About CD47

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.

Overview

Product Name	Anti-Hu CD47 Purified Monoclonal Antibody
Reactive Species	Human, Pig, Primate
Description	Boster Bio Anti-Hu CD47 Purified Monoclonal Antibody (Catalog# M00360-1). Tested in Flow Cytometry, WB, IHC-F application(s). This antibody reacts with Primate, Human, Pig.
Application	Flow Cytometry, IHC-F, WB
Clonality	Monoclonal MEM-122
Formulation	Tris buffered saline (TBS), pH 8.0, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	Q08722

Technical Details

Immunogen	COS-7 (African green monkey) cells. The antibody MEM-122 reacts with an extracellular epitope of 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.
Predicted Reactive Species	Primate
Isotype	Mouse IgM
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow cytometry: 1-4 ug/ml.</p> <p>Western blotting: Non-reducing conditions.</p>

Anti-Hu CD47 Purified Monoclonal Antibody (M00360-1) Images

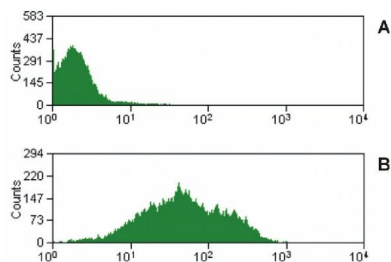


Figure 1. Flow Cytometry validation of CD47 using Anti-Hu CD47 Purified Monoclonal Antibody (M00360-1).

Flow cytometry (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 (PFR-03; cat. no. 11-803-C100)

Panel B -porcine PBMC sample stained with anti-CD47 (MEM-122)

Cells in the granulocyte gate were used for analysis.

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