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Datasheet

CD47 monoclonal antibody, clone MEM-122 (FITC)

Catalog Number: MAB4634

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD47.

Clone Name: MEM-122

Immunogen: Native purified CD47 from African green monkey COS-7 cells.

Host: Mouse

Theoretical MW (kDa): 50-55

Reactivity: African green monkey,Human,Monkey,Non-Human Primates,Pig

Applications: Flow Cyt
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This 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.

Form: Liquid

Conjugation: FITC

Isotype: IgM

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

References:

1. CD47 associates with alpha 5 integrin and regulates responses of human articular chondrocytes to mechanical stimulation in an in vitro model. Orazizadeh M, Lee HS, Groenendijk B, Sadler SJ, Wright MO, Lindberg FP, Salter DM. Arthritis Res Ther. 2008;10(1):R4. Epub 2008 Jan 10.
2. Blockade of thrombospondin-1-CD47 interactions prevents necrosis of full thickness skin grafts. Isenberg JS, Pappan LK, Romeo MJ, Abu-Asab M, Tsokos M, Wink DA, Frazier WA, Roberts DD. Ann Surg. 2008 Jan;247(1):180-90.
3. Role for CD47-SIRPalpha signaling in xenograft rejection by macrophages. Ide K, Wang H, Tahara H, Liu J, Wang X, Asahara T, Sykes M, Yang YG, Ohdan H. Proc Natl Acad Sci U S A. 2007 Mar 20;104(12):5062-6. Epub 2007 Mar 12.