

Datasheet

CD47 monoclonal antibody, clone MEM-122

Catalog Number: MAB3839

Regulation 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: Human

Applications: Flow Cyt, IHC-Fr, WB

(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

Concentration: 1 mg/mL

Recommend Usage: The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, pH 7.4 (15 mM sodium azide)

Storage Instruction: Store at 4°C. Do not freeze.

Entrez GeneID: 961

Gene Symbol: CD47

Gene Alias: IAP, MER6, OA3

Gene Summary: This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Four alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

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.