

Datasheet

CD38 monoclonal antibody, clone HIT2 (PerCP)

Catalog Number: MAB5072

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD38.

Clone Name: HIT2

Immunogen: Native purified CD38 from human thymocytes in foetus.

Host: Mouse

Theoretical MW (kDa): 45

Reactivity: Human

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 CD38 (T10), a 45 kDa type II transmembrane glycoprotein strongly expressed mainly on plasma cells and activated T and B lymphocytes; it is an antigenic marker of lymphoid cells.

Form: Liquid

Conjugation: PerCP

Isotype: IgG1

Recommend Usage: Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10⁶ 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.

Entrez GeneID: 952

Gene Symbol: CD38

Gene Alias: T10

Gene Summary: CD38 is a novel multifunctional ectoenzyme widely expressed in cells and tissues especially in leukocytes. CD38 also functions in cell adhesion, signal transduction and calcium signaling. [provided by RefSeq]

References:

1. Chemotaxis of mouse bone marrow neutrophils and dendritic cells is controlled by adp-ribose, the major product generated by the CD38 enzyme reaction. Partida-Sanchez S, Gasser A, Fliegert R, Siebrands CC, Dammermann W, Shi G, Mousseau BJ, Sumoza-Toledo A, Bhagat H, Walseth TF, Guse AH, Lund FE. *J Immunol.* 2007 Dec 1;179(11):7827-39.
2. CD38 induces apoptosis of a murine pro-B leukemic cell line by a tyrosine kinase-dependent but ADP-ribosyl cyclase- and NAD glycohydrolase-independent mechanism. Lund FE, Muller-Steffner H, Romero-Ramirez H, Moreno-Garcia ME, Partida-Sanchez S, Makris M, Oppenheimer NJ, Santos-Argumedo L, Schuber F. *Int Immunol.* 2006 Jul;18(7):1029-42. Epub 2006 May 23.
3. Kinetic competence of the cADP-ribose-CD38 complex as an intermediate in the CD38/NAD+ glycohydrolase-catalysed reactions: implication for CD38 signalling. Cakir-Kiefer C, Muller-Steffner H, Oppenheimer N, Schuber F. *Biochem J.* 2001 Sep 1;358(Pt 2):399-406.