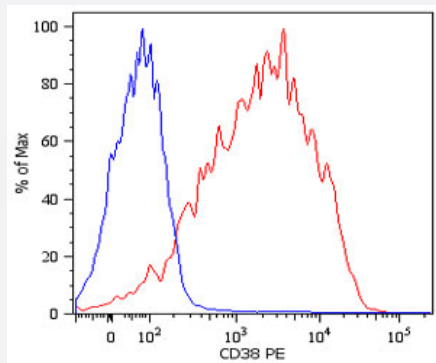


CD38 monoclonal antibody, clone HIT2

Catalog # MAB3836 Size 100 ug

Applications



Flow Cytometry

Surface staining of PHA stimulated human peripheral blood lymphocytes with CD38 monoclonal antibody, clone HIT2 (Cat # MAB3836) conjugated with PE.

Specification

Product Description	Mouse monoclonal antibody raised against native CD38.
Immunogen	Native purified CD38 from human thymocytes in foetus.
Host	Mouse
Theoretical MW (kDa)	45
Reactivity	Human
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
Isotype	IgG1
Recommend Usage	Flow Cytometry Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (10 ug/mL) Western Blot (2 ug/mL) The optimal working dilution should be determined by the end user.

Storage Buffer	In PBS, pH 7.4 (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Frozen sections)
- Flow Cytometry

Surface staining of PHA stimulated human peripheral blood lymphocytes with CD38 monoclonal antibody, clone HIT2 (Cat # MAB3836) conjugated with PE.

Gene Info — CD38

Entrez GeneID	952
Gene Name	CD38
Gene Alias	T10
Gene Description	CD38 molecule
Omim ID	107270
Gene Ontology	Hyperlink
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]
Other Designations	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase CD38 antigen CD38 antigen (p45) cyclic ADP-ribose hydrolase

Publication Reference

- [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.

Journal of Immunology 2007 Dec; 179(11):7827.

- [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.

International Immunology 2006 May; 18(7):1029.

- [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.

The Biochemical Journal 2001 Sep; 358(Pt 2):399.

Pathway

- [Calcium signaling pathway](#)
- [Hematopoietic cell lineage](#)
- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)

Disease

- [Cell Transformation](#)
- [Child Development Disorders](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Leukemia](#)
- [Lupus Erythematosus](#)
- [Lymphoma](#)

- [Osteoporosis](#)