MT1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MT1 / CD43, Monoclonal Antibody
Full Product Name	Mouse anti MT1 / CD43
Clonality	Monoclonal
Isotype	IgG1
Clone Number	MT1
Host	Mouse
Species Reactivity	Human
Form/Format	Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Specificity	Clone MT1 produces Mouse IgG1 immunoglobulins reactive with a 95-115 kD highly sialated glycoprotein. This antibody is used to identify B cell lines and myeloma cells. It may be used in the chronic lymphocytic leukemias (CLL), as an alternative to CD5. The antigen detected by MT1 is the only marker expressed on neoplasms of the very early precursor cells. In immunohistochemistry it reacts with T cells, macrophages, myeloid cells and B cells (weak). It is used for the typing of lymphomas in paraffin sections. CD43 may function as an adhesion molecule via interaction with CD54 although this has not been definitely established. It may also inhibit leucocyte interactions with other cells. The antigen is involved in the activation of T-cells, B cells, NK cells and monocytes. The membrane proximal portion of the cytoplasmic domain mediates an association with the cytoskeleton.
Preparation and Storage	Store at 4 degree C, or in small aliquots at -20 degree C.
Source Note	MT1 is a monoclonal antibody derived by fusion of X63 Mouse myeloma cells with spleen cells from of Balb/c mice, intraperitoneally immunized with Human monocytes isolated by centrifugal elutriation. Immunizations were carried out at least twice at 2-week intervals with: A) cell suspensions of a lymph node involved by Hodgkin's disease; B) cell suspensions of a lymph node involved by Bchronic lymphatic leukemia; C) cells of Hodgkin's cell line DEV, respectively. No adjuvants were used (3).
Product Categories/Family for anti-MT1 / CD43 antibody	CD markers; Immunology
Applications Tested/Suitable for anti-MT1 / CD43 antibody	Immunohistochemistry (IHC) (frozen), Immunohistochemistry (IHC) (paraffin), Western Blot (WB)
Application Notes for anti-MT1 / CD43 antibody	The antibody is suitable for flow cytometry for analysis of blood and bone marrow samples or in immunohistochemistry using cytospots, paraffin or frozen tissue sections. Optimal antibody dilution should be determined by titRation.
Related Product Information for anti-MT1 / CD43 antibody	CD43 antigen is expressed on all T cells, NK cells, myeloid cells and monocytes as well as on CD5 positive mature B cells. It is also present on all immature hematopoietic cells in the bone marrow. The antigen is deficient in patients with Wiskott-Aldrich syndrome. A soluble form of CD43 is present in Human Serum.
Product References and Citations for anti-MT1 / CD43 antibody	Barclay, A., et al. (1997). The Leucocyte antigen factsbook. Academic Press. London. Schmid, K., Hediger M.A., Brossmer, R., Collins, J.H., Haupt, H. Marti, T., Offner, G.D., Schaller, J., Takaqaki, K., Walsh, M.T., et al. (1992). Amino acid sequence of Human plasma galactoglycoprotein: identity with the extracellular region of CD43 (sialophorin). Proc Natl Acad Sci U S A 89, 663-7. Poppema, S., Hollema, H., Visser, L. and Vos, H. (1987). Monoclonal antibodies (MT1, MT2, MB1, MB2, MB3) reactive with leukocyte subsets in paraffin-embedded tissue sections. Am J Pathol. 127, 418-29. Poppema, S. and Visser, L. (1987). Biotest bulletin 31, 418-29. Knapp, W., et al. eds. (1989). Leucocyte typing workshop IV. Oxford university press. Manjunath, N., Correa, M., Ardman, M. and Ardman, B. (1995). Negative regulation of T-cell adhesion and activation by CD43. Nature 377, 535-8.

Other Notes	Small volumes of anti-MT1 / CD43 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MT1 / CD43 purchase	MBS570291 is an antibody targeting MT1 / CD43. Also known as Mouse anti MT1 / CD43. Reactive in Human. Host: Mouse.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/mt1-cd43/570291