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Mouse anti MT1 / CD43

Catalogue number: **MUB1203P**

Clone	MT1
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

Distributors

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Background

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.

Source

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

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

The antibody is suitable for flow cytometry for analysis of blood and bone marrow samples or in immunohistochemistry using cytopots, paraffin or frozen tissue sections. Optimal antibody dilution should be determined by titration.

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

diagnosis of 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.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Barclay, A., et al. (1997). The Leucocyte antigen factsbook. Academic Press. London.
2. 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.
3. 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.
4. Poppema, S. and Visser, L. (1987). Biotest bulletin 31, 418-29.
- Knapp, W., et al. eds. (1989). Leucocyte typing workshop IV. Oxford university press.
5. Manjunath, N., Correa, M., Ardman, M. and Ardman, B. (1995). Negative regulation of T-cell adhesion and activation by CD43. Nature 377, 535-8.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.