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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Mouse anti CD23, Low affinity immunoglobulin epsilon Fc receptor

Catalogue number: **MUB2023P**

Clone	5E3
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1mg
Host	Mouse
Species reactivity	Human
Application	Flow cytometry

Background

The low affinity immunoglobulin E (IgE) Fc receptor, also known as CD23, is a 45kD type II transmembrane glycoprotein. CD23 contains a C-type lectin domain in the extracellular C-terminal region and belongs to group II of the type II lectins. CD23 is a receptor for IgE but can also bind to other ligands such as CD21, CD11b and CD11c. CD23 primarily functions as a B-cell growth and activation factor. It also regulates the synthesis of IgE through binding of IgE and CD21. Two isoforms of CD23 have been described, CD23a and CD23b, which are expressed on different cell types. CD23a expression is restricted to resting B-cells, whereas CD23b is weakly expressed on activated B-cells and other haematopoietic cells. CD23 is also expressed on B-cell chronic lymphocytic leukemia (CLL) cells and is useful as a marker to differentiate CLL from mantle cell lymphoma by flow cytometry. A soluble form of CD23 (sCD23) also exists which is produced by proteolytic cleavage of the membrane bound form. Studies suggest that levels of serum sCD23, in cases of B-CLL, correlate with tumour activity and are an important indicator for early treatment.

Source

5E3 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0 mouse myeloma cells with splenocytes from a BALB/c mouse immunized with Daudi cells, a human Burkitt's lymphoma cell line.

Product

Each vial contains 100µl 1mg/ml purified monoclonal antibody in phosphate buffered saline (PBS) containing 0.09% sodium azide.

Distributors

For Purchasing Information, please contact your local distributor

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Applications

The 5E3 antibody is suitable for the detection of human CD23 antigen by flow cytometry. Human tonsil is suitable as a positive control. Optimal antibody dilutions for the different applications should be determined by titration.

Specificity

The antibody 5E3 is directed against human CD23. The antibody has not been tested for cross reactivity with other species.

Storage

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

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 datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.