

Product datasheet for **AM33383PU-N**

CD23 Mouse Monoclonal Antibody [Clone ID: 5E3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5E3
Applications:	FC
Recommended Dilution:	The 5E3 antibody is suitable for the detection of Human CD23 antigen by Flow Cytometry. Positive Control: Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The Antibody is 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.
Specificity:	The antibody 5E3 is directed against Human CD23. Other species not tested.
Formulation:	PBS State: Purified State: Liquid purified fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Fc fragment of IgE receptor II
Database Link:	Entrez Gene 2208 Human P06734



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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.

Synonyms:

Fc-epsilon-R1I, FCER2, CD23A, FCE2, IGEBF