

anti-human CD23

Monoclonal Antibody EBVCS-5 to CD23 (Human)

Cat-No: **21279231**

100 µg in 100 µl

Clone: EBVCS-5

Specificity: The mouse monoclonal antibody EBVCS-5 recognizes an epitope located in the stalk region of human low affinity IgE receptor (CD23) between the 37 and 25 kDa cleavage sites.

Isotype subclass: Mouse IgG1

Form: Purified by protein-A affinity chromatography

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 0.09 % sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 2 °- 8 °C. Do not freeze!

Application: Flow Cytometry, Immunoprecipitation

References:

- *) Ling NR, Stevenson FK, Brown B: Urinary excretion of CD23 antigen in normal individuals and patients with chronic lymphocytic leukaemia (CLL). Clin Exp Immunol. 1991 Dec;86(3):360-6.
- *) Yamaoka KA, Arock M, Issaly F, Dugas N, Le Goff L, Kolb JP: Granulocyte macrophage colony stimulating factor induces Fc epsilon RII/CD23 expression on normal human polymorphonuclear neutrophils. Int Immunol. 1996 Apr;8(4):479-90.
- *) Belleau JT, Gandhi RK, McPherson HM, Lew DB: Research upregulation of CD23 (FcepsilonRII) expression in human airway smooth muscle cells (huASMC) in response to IL-4, GM-CSF, and IL-4/GM-CSF. Clin Mol Allergy. 2005 May 20;3:6.
- *) Byrd JC, O'Brien S, Flinn IW, Kipps TJ, Weiss M, Rai K, Lin TS, Woodworth J, Wynne D, Reid J, Molina A, Leigh B, Harris S: Phase 1 study of lumiliximab with detailed pharmacokinetic and pharmacodynamic measurements in patients with relapsed or refractory chronic lymphocytic leukemia. Clin Cancer Res. 2007 Aug 1;13(15 Pt 1):4448-55.

Background: CD23 (Fc epsilon RII), the low affinity IgE receptor, is a 45 kDa type II membrane glycoprotein expressed more or less on eosinophils, follicular dendritic cells, Langerhans cells, mature B cells (mainly upon activation), EBV-transformed lymphoblasts, monocytes, and subpopulation of platelets. A soluble form of 37 kDa and other its fragments were also described. CD23 mediates IgE-dependent cytotoxicity by eosinophils and macrophages, and downregulates IgE secretion in response to high levels of IgE, involving release of pro-inflammatory cytokines.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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