EXBIO Antibodies

PRODUCT DATA SHEET

1F-689-T100

Monoclonal Antibody to CD23 Fluorescein (FITC) conjugated (100 tests)

Clone: EBVCS-5

Isotype: Mouse IgG1

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.

Regulatory Status: RUO

Immunogen: EBV-transformed human cells

Species Reactivity: Human

Preparation: The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.

Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

Storage / Stability: Store in the dark at 2-8ºC. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.
The content of a vial (0.4 ml) is sufficient for 100 tests.

Expiration: See vial label

Lot Number: See vial label

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.

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.
*Rumi C, Rutella S, Leone G, Bonini S: Fc-RII/CD23 receptor on circulating human eosinophils. Blood. 1998 Apr 1;91(7):2621-2.

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