

TECHNICAL DATA SHEET

CyFlow™ CD23 PerCP-Cy5.5 Anti-Hu; Clone EBVCS-5

REF AV467346

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

| | |
|------------------------------------|-----------------------------|
| Antigen | CD23 |
| Alternative Names | FcεRII , BLAST-2 |
| Clone | EBVCS-5 |
| Clonality | monoclonal |
| Format | PerCP-Cy5.5 |
| Host / Isotype | Mouse / IgG1 |
| Species Reactivity | Human |
| Negative Species Reactivity | — |
| Quantity | 100 tests |
| Immunogen | EBV-transformed human cells |

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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.

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

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

Background Information

CD23 (Fc ε 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. < PMID: 1721010 >

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- Rumi C, Rutella S, Leone G, Bonini S: Fc-RII/CD23 receptor on circulating human eosinophils. *Blood.* 1998 Apr 1; 91(7):2621-2. < PMID: 9516167 >
- 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. < PMID: 15907205 >
- 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(15-1):4448-55. < PMID: 17671129 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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