

TECHNICAL DATA SHEET

CyFlow™ CD23 Purified Anti-Hu; Clone EBVCS-5

REF BV210369

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	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	EBV-transformed human cells

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.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation

Storage Buffer

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

Storage and Stability

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

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- 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. < PMID: 8722638 >
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- 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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