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Product Data Sheet

PerCP/Cy5.5 anti-human CD23

Catalog # / Size: 338517 / 25 tests
338518 / 100 tests

Clone: EBVCS-5

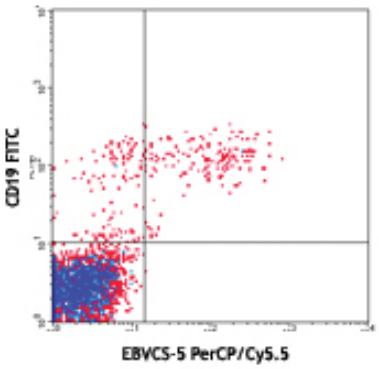
Isotype: Mouse IgG1 κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with CD19 FITC and EBVCS-5 PerCP/Cy5.5

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximun emission of 690 nm.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

Application References:
1. Sugden B and Metzenberg S. 1983. *J. Virol.* 46:800-807.

Description: CD23 is a 45 kD protein, also known as Leu-20, FcεRII, IgE Fc receptor, BLAST-2, B6, and low affinity IgE receptor. It is a member of the Ig family, expressed on most mature B cells, B cells in follicular mantle (but not in proliferating germinal center cells, follicular dendritic cells, monocytes, eosinophils, Langerhans cells, and a subset of T cells (10-15% of tonsillar T cells). CD23 responds to high levels of IgE by downregulating IgE secretion. In human monocytes, CD23 triggering results in release of pro-inflammatory cytokines including TNF-α, IL-1, IL-6, and GM-CSF. CD23 can be proteolytically cleaved to generate soluble CD23 fragments of various molecular weights. In chronic lymphocytic leukemia, levels of soluble CD23 in the serum can be used as a prognostic marker to identify patients at high risk for disease progression. Alternate splicing of exon 2 can also generate two cell-surface isoforms of CD23 differing by 6 amino acids in their cytoplasmic region. The D3.6 antibody against human CD23 has been shown to be useful for flow cytometry.

Antigen References:
1. Ludin C, *et al.* 1987. *EMBO J.* 6:109.
2. Delespesse G, *et al.* 1992. *Immunol. Rev.* 125:77.
3. Flores-Romo L, *et al.* 1993. *Science* 261:1038.
4. Armant M, *et al.* 1994. *J. Exp. Med.* 180:1005.

Related Products:

Product	Clone	Application
PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC

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