

CD23 (HD50)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4095012
	100	5	500	4095015
PE	50	5	250	4095022
	100	5	500	4095025
PE-Cyanine7	50	5	250	4095082
	100	5	500	4095085
APC-Cyanine7	50	5	250	4095092
	100	5	500	4095095
mFluor™450	50	5	250	4095142
	100	5	500	4095145

❖ mFluor™ is a trademark of AAT Bioquest, Inc.

Antigen:	CD23
Immunogen:	Extracytoplasmic part of CD23 antigen on B lymphocytes and monocytes
Host/Isotype:	Mouse, IgG2b,κ
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃ (unconjugated) PBS, pH7.2, 0.09% NaN ₃ and 0.2% (w/v) BSA (conjugated)
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Antigen Information

The clone HD50 is a mouse monoclonal antibody selectively binds with the 45 kD type II integral membrane glycoprotein having a low-affinity receptor for immunoglobulin (Ig)E commonly known as CD23 or FcεRII. CD23 is the only FcR which does not belong to the immunoglobulin gene superfamily and is expressed on mature B cells, monocytes, eosinophils, platelets and dendritic cells. Similar to the most FcR, soluble forms of CD23 (sCD23) are released into extracellular fluids. CD23 interacts with CD21, CD11b and CD11c indicates that CD23 should be viewed not only as a low affinity IgE receptor but also as an adhesion molecule involved in cell-cell interaction. Presence of cell surface and soluble CD23 in serum is considered as one of the prognostic markers of chronic lymphocytic leukemia (CLL).

References

1. Chan, MA, et al. 2010. *Clinical Immunol*, 137:330.
2. Ludin, C, et al. 1987. *EMBO J.*, 6: 109.
3. Acharya, M. et al. 2010. *Clin. Exp. Immunol*, 162:12.
4. Bonnefoy, JY, et al. 1997. *Int. Rev. Immunol*. 16:113.
5. Gong, JZ, et al. 2001. *Am. J. Clin. Pathol*. 116:893.

*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.