

CD23 (HD50)

Type	Size	Catalog number
Unconjugated	100µg	109501
	500µg	109503
FITC	25 tests	109514
	100 tests	109515
	200 tests	109516

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

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of unconjugated antibody is ≤ 0.5µg per 1x10⁶ cells in 100µl of staining volume followed by any fluorescent conjugated anti-mouse secondary antibody. 5µl of conjugated product will be sufficient to stain 1 million cells in 100µl staining volume or 100µl of whole blood. It is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

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.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.