Caprico Biotechnologies

TECHNICAL DATA SHEET

CD54 (LB-2)

Type	Size	Catalog number
Unconjugated	100µg	105501
	500µg	105503
FITC	25 tests	105514
	100 tests	105515
	200 tests	105516
PE	25 tests	105524
	100 tests	105525
	200 tests	105526
APC	25 tests	105544
	100 tests	105545
	200 tests	105546

Antigen: CD54
Immunogen: MHC Class II antigen negative human B-lymphoblastoid cell line
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 these antibodies has been pre-titrated and tested by flow cytometric analysis in high CD54 expression Daudi tumor cell line such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

Antigen Information

The clone LB-2 specifically binds with CD54 also known as Intercellular adhesion molecule-1 (ICAM-1), a cell surface antigen expressed by various types of human immune and non-immune cells. CD54 is an 85-110 kDa type I transmembrane glycoprotein that belongs to the Ig supergene family and is a surrogate marker of antigen presenting cell activation. CD54 is expressed mostly on endothelial cells. It also weakly expressed by naïve B and T cells and moderately expressed on activated B and T cells as well as monocytes. CD54 is highly expressed on human myeloma cells, Burkitt's lymphoma cells, erythroleukemia cells, and B-lymphoblastoid cells. The CD54 adhesion molecule plays roles in inflammatory and immune responses and neoplasia.

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References

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Terms and Conditions

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

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