Caprico Biotechnologies

TECHNICAL DATA SHEET

CD7 (124-1D1)

Type	Size	Catalog number
unconjugated	100µg	102501
	500µg	102503
FITC	25 tests	102514
	100 tests	102515
	200 tests	102516
PE	25 tests	102524
	100 tests	102525
	200 tests	102526
APC	25 tests	102544
	100 tests	102545
	200 tests	102546
PerCP-Cyanine 5.5	25 tests	102564
	100 tests	102565
	200 tests	102566
Biotin	100µg	102551

Antigen: CD7
Immunogen: Human leukocytes
Host/Isotype: Mouse, IgG1,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 of human PBMCs 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 antibody recognizes CD7, a 40kDa human T and NK lymphocyte antigen. The CD7 antigen is expressed throughout T lymphocyte differentiation and is present on 85% to 90% of peripheral blood T lymphocytes. In normal individuals, the CD7 antibody reacts with all $CD8^+$ lymphocytes, approximately 90% of $CD4^+$ lymphocytes, and most NK lymphocytes. CD7 is weakly reactive with monocytes and does not react with granulocytes or B lymphocytes. It is expressed on 50% of thymocytes in suspension. In leukemias, the CD7 antigen is present on most T lymphoid lineages.

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References

1. Link M, et al. 1983. *Blood*. 62:316.
2. Weiss LM, et al. 1985. *Am J Pathol*. 118:316.
3. Emara M, et al. 1989. *Hum Immunol*. 25:87.
4. Greenberg JM, et al. 1986. *J Immunol*. 137:2043.
5. Pittaluga S, et al. 1986. *Blood*. 68:134.

Terms and Conditions

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

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