

CD7 (4H9)

Type	Size	Catalog number
unconjugated	100µg	103001
	500µg	103003
FITC	25 tests	103014
	100 tests	103015
	200 tests	103016
PE	25 tests	103024
	100 tests	103025
	200 tests	103026
APC	25 tests	103044
	100 tests	103045
	200 tests	103046
iFluor™ 488	25 tests	1030114
	100 tests	1030115
	200 tests	1030116
	25 tests	1030124
iFluor™ 647	100 tests	1030125
	200 tests	1030126
Biotin	100µg	103051

❖ iFluor is a trademark of AAT Bioquest, Inc.

Antigen:	CD7
Immunogen:	T-acute lymphoblastic leukemia cells
Host/Isotype:	Mouse, IgG2a,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 clone 4H9 recognizes the 40 kDa CD7 antigen abundantly expressed on the human T and NK lymphocytes. The CD7 antigen is expressed throughout T lymphocyte differentiation and is present on 85% to 90% of peripheral blood T cells. In normal individuals, the CD7 antibody reacts with all CD8⁺ T cells, approximately 90% of CD4⁺ T cells, and

most NK cells. CD7 is weakly reactive with monocytes and does not react with granulocytes or B lymphocytes. It is also expressed on 50% of thymocytes. In leukemias, the CD7 antigen is present on most T lymphoid lineages.

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.