



Sanquin

PeliCluster

CD4

Specification sheet

Art.no	M1308
Test/vial	100
Clone	CLB-T4/1, 10A12
	This clone has been derived from hybridization of SP2/O cells with spleen cells of a (BALB/c x A/J) mouse immunized with human T lymphocytes. This antibody was submitted to CD4 in the third International Workshop on Human Leukocyte Differentiation Antigens.
Isotype	Mouse, IgG2a.
Source	Ascites fluid of tumour bearing BALB/c mice.
Purification	Ammoniumsulphate precipitation and ion exchange chromatography.
Packing	Each vial contains 1 ml with approximately 0.2 mg/ml monoclonal antibody and 10 mg BSA in 20 mM TRIS and 150 mM NaCl, pH 8.0.
Preservative	Sodium azide (NaN ₃), 0.1% (w/v).
Storage and stability	Monoclonal antibodies should be stored in the dark at 2-8°C. The reagent is stable until the expiry date stated on the vial label.
Major reactivity	<p>The monoclonal antibody is directed against the CD4 antigen (T4 antigen), which is expressed on human T lymphocytes with a helper/inducer function. The monoclonal antibody reacts with 50 - 60% human peripheral T lymphocytes and 80% of thymocytes.</p> <p>The monoclonal antibody reacts on a low level with a subpopulation of cortical thymocytes, human monocytes and macrophages, some AML. The monoclonal antibody does not react with B cells, granulocytes and thrombocytes.</p>
Molecular mass	54 kDa.
Application	<p>Monitoring of T cell subset numbers in peripheral blood.</p> <p>Analysis of immuno regulatory T cell subsets involved in helper/inducer functions.</p> <p>Identification of T cells in tissue.</p>
Methods	Indirect immunofluorescence staining with analysis by flow cytometry or fluorescence microscopy.