

## AM26053BT-N

## Monoclonal Antibody to CD4 - Biotin

<b>Alternate names:</b>	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.2mg/ml (reconstituted)
<b>Background:</b>	CD4 is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It is mainly expressed by the T lymphocyte subset that recognizes antigens associated with self MHC class II molecules. CD4 is the primary receptor for HIV retroviruses. Like many cell surface markers, it is a member of the immunoglobulin superfamily.
<b>Uniprot ID:</b>	<a href="#">P01730</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	EDU-2
<b>Immunogen:</b>	Stimulated human leukocytes
<b>Format:</b>	<b>State:</b> Lyophilized Ig fraction <b>Purification:</b> Affinity purified <b>Buffer System:</b> Phosphate buffered saline pH 7.2 (PBS) <b>Preservatives:</b> 0.05% (v/v) Kathon CG <b>Stabilizers:</b> 5 mg/ml bovine serum albumin (BSA) <b>Label:</b> Biotin <b>Reconstitution:</b> Reconstitute by adding 0.5ml distilled water.
<b>Applications:</b>	<b>Immunohistochemistry on frozen sections:</b> 0.2 mg/ml (1:1000). <i>Suggested positive control:</i> Human tonsil. Has been described to work in FACS. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes the CD4 antigen, a 55kD glycoprotein (reduced and non-reduced).
<b>Species Reactivity:</b>	<b>Tested:</b> Human
<b>Add. Information:</b>	<b>Antigen distribution:</b> Isolated cells: the antibody stains approximately 20-60% of human peripheral blood mononuclear cells in flow cytometry.
<b>Storage:</b>	Store lyophilized at -20°C. After reconstitution store the antibody undiluted at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Cassens U, Göhde W, Kuling G, Gröning A, Schlenke P, Lehman LG, et al. Simplified volumetric flow cytometry allows feasible and accurate determination of CD4 T lymphocytes in immunodeficient patients worldwide. <i>Antivir Ther.</i> 2004

Jun;9(3):395-405. PubMed PMID: 15259902.

2. Reinherz, E.L. et al. (eds.), Leucocyte typing II., Springer Verlag, New York, (1986).

3. Barclay, Brown et al., The Leukocyte Antigen FactsBook, 2nd edition, Harcourt Brace & Company, London, (1997).

**Pictures:**

AM26053BT-N: human tonsil, frozen sections.

