

AM26053PU-N**Monoclonal Antibody to CD4 - Aff - Purified**

Alternate names:	T-cell surface antigen T4/Leu-3, T-cell surface glycoprotein CD4
Quantity:	0.1 mg
Background:	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.
Uniprot ID:	P01730
NCBI:	NP_000607
GeneID:	920
Host / Isotype:	Mouse / IgG2a
Clone:	EDU-2
Immunogen:	Stimulated human leukocytes
Format:	State: Lyophilized Ig fraction Purification: Affinity chromatography Buffer System: Stock solution contains 0.2 mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5 mg/ml bovine serum albumin (BSA), and 0.09% sodium azide as a preservative. Label: Reconstitute by adding 0.5ml distilled water.
Applications:	Immunohistochemistry on frozen sections: 0.2 µg/ml (1:1000). Has been described to work in FACS. Suggested positive control: Human tonsil. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects CD4.
Species Reactivity:	Tested: Human
Add. Information:	The antigen is CD4, a 55kD glycoprotein (reduced and nonreduced). The epitope has not been further characterized. Antigen distribution: Isolated cells: the antibody stains approximately 20-60% of human peripheral blood mononuclear cells in flow cytometry.
Storage:	Prior to reconstitution store at 2-8°C. Following reconstitution store (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Product Citations:	Purchased from Acris: 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:

Immunohistochemistry on frozen sections: Staining with AM26053PU-N on human tonsil

