



BMA BIOMEDICALS

Monoclonal Antibody To Human CD4

Marker for MHC class II-restricted T-cells

Monoclonal antibody EDU-2 recognizes the CD4 antigen. 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.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product Number:	T-1364 (Lot 01PO0801)
Clone:	EDU-2
Host species, isotype:	Mouse IgG2a/kappa
Quantity:	100µg
Format:	Affinity purified, lyophilized. Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.09% sodium azide as a preservative.
Stability:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Applications:	Tested for immunohistochemistry (IHC); has been described to work in FACS. Approximate working dilution for IHC: Frozen sections: 0.2µg/ml (1:1000) Paraffin sections: not tested Optimal dilutions should be determined by the end user Suggested positive control: Human tonsil Please see www.bma.ch for protocols and general information
Immunogen:	Stimulated human leukocytes
Protein database:	<u>human-P01730</u>

Antigen, epitope:	The antigen is CD4, a 55kD glycoprotein (reduced and non-reduced). 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.
Specificity:	Human: CD4 Other: not tested

Selected references

U. Cassens et al., Simplified volumetric flow cytometry allows feasible and accurate determination of CD4 T lymphocytes in immunodeficient patients worldwide, *Antiviral Therapy* 9:395-405 (2004), International Medical Press 1359-6535/02

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

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

For in vitro research only. This product contains sodium azide as a preservative.