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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.

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
	Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
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.
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 ll., 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. Caution: this product contains sodium azide, a poisonous and hazardous substance.