



## Peninsula Laboratories, LLC

A Member of the Bachem Group

305 Old County Road, San Carlos, CA 94070

Tel: (800) 922-1516 • (650) 592-5392

Fax: (650) 595-4071

www.bachem.com

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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.

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<b>Product Number:</b>	T-1364
<b>Clone:</b>	EDU-2
<b>Host species, isotype:</b>	Mouse IgG2a/kappa
<b>Quantity:</b>	100µg
<b>Format:</b>	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.
<b>Stability:</b>	Original vial: 1 year at 4° - 8°C  Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.
<b>Applications:</b>	Tested for immunohistochemistry (IHC); has been described to work in FACS.  <b>Approximate working dilution for IHC:</b> 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 <b>Immunogen:</b> Stimulated human leukocytes.
<b>Antigen, epitope:</b>	The antigen is CD4, a 55kD glycoprotein (reduced and non-reduced). The epitope has not been further characterized.



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**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.

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### 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*, 2<sup>nd</sup> edition, Harcourt Brace & Company, London, (1997)

For *in vitro* research only. Caution: this product contains sodium azide, a poisonous and hazardous substance.