



## 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

---

### Monoclonal Antibody To Human CD3 Marker for Thymocytes and Peripheral T cells

Monoclonal antibody CRIS-7 recognizes the CD3 antigen on mature human T-cells. The CD3 antigen is a protein complex composed of four distinct chains (CD3 $\gamma$ , CD3 $\delta$  and two CD3 $\epsilon$ ) that associate with the T cell receptor (TCR) and the  $\zeta$ -chain to generate an activation signal in T lymphocytes. The TCR,  $\zeta$ -chain and CD3 molecules together comprise the TCR complex. The CD3 $\gamma$ , CD3 $\delta$  and CD3 $\epsilon$  chains are highly related cell surface proteins of the immunoglobulin superfamily containing a single extracellular immunoglobulin domain.

This antibody does not react with formalin fixed cells. Please see product T-1363, clone UCHT-1 as an alternative.

---

**Product Number:** T-1362

**Clone:** CRIS-7

**Host species, isotype:** Mouse IgG2a/kappa

**Quantity:** 100 $\mu$ g

**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:  $\leq 0.1\mu$ g/ml (1:2000)

Paraffin sections: the epitope is not fixation resistant.

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil

Immunogen: Stimulated human leukocytes.

**Antigen, epitope:** The antigen is CD3. The epitope has not been further characterized.



## 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](http://www.bachem.com)

**Antigen distribution:**

**Isolated cells:** Peripheral T cells

**Specificity:**

**Human:** CD3

**Other:** Rhesus monkey

---

### Selected references

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

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

Alberola-Ila, J. et al., Stimulation through the TCR/CD3 complex up-regulates the CD2 surface expression on human T lymphocytes. J. Immunol. 146 : 1085 - 1092, (1991)

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