

---

## Anti-Human CD3 Alexa Fluor<sup>®</sup> 700

**Catalog Number:** 56-0038

**Also known as:** Leu-4, T3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

---

### Product Information

**Contents:** Anti-Human CD3 Alexa Fluor<sup>®</sup> 700

 **Catalog Number:** 56-0038

**Clone:** UCHT1

**Concentration:** ug size: 0.2 mg/mL; test size: 5 uL (0.5 ug)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** III 471

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Caution, contains Azide**



---

### Description

The UCHT1 monoclonal antibody reacts with human CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Crosslinking of TCR via immobilized UCHT1 initiates an intracellular biochemical pathway resulting in cellular activation and proliferation.

### Applications Reported

This UCHT1 antibody has been reported for use in flow cytometric analysis.

The Alexa Fluor<sup>®</sup> 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

### Applications Tested

This UCHT1 antibody is offered in 2 formats:

-  $\mu$ g size: has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 ug/test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

- test size: has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5  $\mu$ L (0.5  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

Senecal B, Elain G, et al. 2007. Expansion of regulatory T cells in patients with Langerhans cell histiocytosis. *PLoS Med.* 14;4(8):e253. (IHC frozen, PubMed)

Baeten D, De Keyser F, et al. 2004. Tumour necrosis factor alpha independent disease mechanisms in rheumatoid arthritis: a histopathological study on the effect of infliximab on rheumatoid nodules. *Ann Rheum Dis.* 63(5):489-93. (IHC frozen, PubMed)

Knapp, W., B. Dorken, et al. eds. (1989). *Leucocyte Typing IV: White Cell Differentiation Antigens.* Oxford University Press. New York.

Pollard K, Lunny D, et al. 1987. Fixation, processing, and immunochemical reagent effects on preservation of T-lymphocyte surface membrane antigens in paraffin-embedded tissue. *J Histochem Cytochem.* 35(11):1329-38. (IHC paraffin and frozen, PubMed)

McMichael, A.J., P.C.L. Beverly, et al. eds. (1987). *Leucocyte Typing III: White Cell Differentiation Antigens.* Oxford

---

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) •  
[info@ebioscience.com](mailto:info@ebioscience.com)

---

## **Anti-Human CD3 Alexa Fluor<sup>®</sup> 700**

**Catalog Number:** 56-0038

**Also known as:** Leu-4, T3

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

---

University Press. New York.

### **Related Products**

11-0199 Anti-Human CD19 FITC (HIB19)

56-0032 Anti-Mouse CD3 Alexa Fluor<sup>®</sup> 700 (17A2)

56-0037 Anti-Human CD3 Alexa Fluor<sup>®</sup> 700 (OKT3)

56-4714 Mouse IgG1 K Isotype Control Alexa Fluor<sup>®</sup> 700 (P3.6.2.8.1)

---

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • [www.ebioscience.com](http://www.ebioscience.com) •  
[info@ebioscience.com](mailto:info@ebioscience.com)