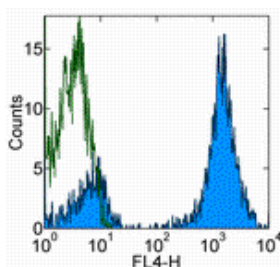


Anti-Human CD3 APC

Catalog Number: 17-0038

Also Known As: Leu-4, T3

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



Staining of normal human peripheral blood cells with Mouse IgG1 K Isotype Control APC (cat. 17-4714) (open histogram) or Anti-Human CD3 APC (filled histogram). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD3 APC

REF **Catalog Number:** 17-0038


Clone: UCHT1

Concentration: 5 µL (0.25 µg)/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.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

 **Caution, contains Azide**

Description

The UCHT1 monoclonal antibody reacts with human CD3ε, 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

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

Applications Tested

This UCHT1 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

Senechal 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 University Press. New York.

Related Products

17-4714 Mouse IgG1 K Isotype Control APC (P3.6.2.1)

46-0087 Anti-Human CD8a PerCP-eFluor® 710 (SK1 (SK-1))

48-0048 Anti-Human CD4 eFluor® 450 (OKT4 (OKT-4))

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