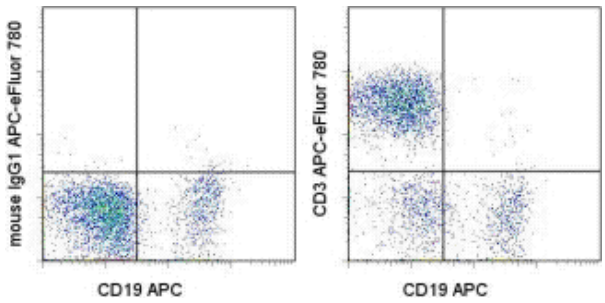
Anti-Human CD3 APC-eFluor® 780

Catalog Number: 47-0038
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 Anti-Human CD19 APC (cat. 17-0199) and Mouse IgG1 K Isotype Control APC-eFluor® 780 (cat. 47-4714) (left) or Anti-Human CD3 APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD3 APC-eFluor® 780
REF **Catalog Number:** 47-0038
Clone: UCHT1
Concentration: 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. This tandem dye is sensitive to photo-induced oxidation. Protect this vial from light during storage, handling & experimental procedures.
LOT **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.

Applications Tested

This UCHT1 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.5 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 10^5 to 10^8 cells/test.

APC-eFluor® emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochome.

Light sensitivity: Tandem is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

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
17-0199 Anti-Human CD19 APC (HIB19)
47-4714 Mouse IgG1 K Isotype Control APC-eFluor® 780 (P3.6.2.8.1)

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