full spectrum cell analysis®
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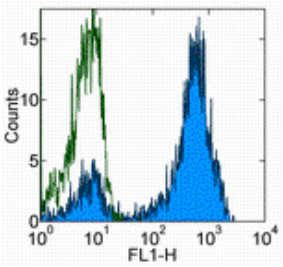
Anti-Human CD3 Purified

Catalog Number: 14-0038
Also Known As: Leu-4, T3
RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.5 ug of Mouse IgG1 K Isotype Control Purified (cat. 14-4714) (open histogram) or 0.5 ug of Anti-Human CD3 Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD3 Purified
REF **Catalog Number:** 14-0038
Clone: UCHT1
Concentration: 0.5 mg/mL
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.
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

The UCHT1 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. UCHT1 has also been reported in activation of T cells. (Please use Functional Grade purified UCHT1, cat. 16-0038, in functional assays.)

Applications Tested

The UCHT1 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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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

13-4013 Anti-Mouse IgG Biotin (Polyclonal)
14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.1)

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