

CD3/CD19 Antibody Cocktail, FITC, PE, eBioscience™

Product Details	
Size	50 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Cocktail
Type	Antibody
Clone	UCHT1, HIB19
Conjugate	FITC , PE
Form	Liquid
Concentration	20 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469563

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	20 µL/test	6 Publications

Product Specific Information

Description: This product consists of two fluorochrome-conjugated monoclonal antibodies to distinguish human peripheral CD3⁺ T cells and CD19⁺ B cells. The UCHT1 monoclonal antibody (mouse IgG1, kappa) 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. The HIB19 monoclonal antibody (mouse IgG1, kappa) reacts with human CD19, a 95 kDa transmembrane glycoprotein. CD19 is expressed by B cells during all stages of development excluding the terminally differentiated plasma cells. Follicular dendritic cells also express CD19. Together CD21, CD81, Leu13, MHC class II, and CD19 form a multimolecular complex that associates with the BCR. Signaling through CD19 induces tyrosine phosphorylation, calcium flux and proliferation of B cells.

Applications Reported: The product is formulated for use in flow cytometric analysis.

Applications Tested: This product has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 20 µL per test (containing 1 µg of Anti-Human CD3 (UCHT1) FITC and 0.25 µg of Anti-Human CD19 (HIB19) PE). 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.

Flow Cytometry (6)

PLoS pathogens

Chronic exposure to type-I IFN under lymphopenic conditions alters CD4 T cell homeostasis.

"22190372 was used in flow cytometry to investigate the effects of lymphopenia and chronic exposure to IFN on T cell homeostasis"

Authors: Le Saout C, Hasley RB, Imamichi H, Tcheung L, Hu Z, Luckey MA, Park JH, Durum SK, Smith M, Rupert AW, Sneller MC, Lane HC, Catalfamo M

Species
Human

Dilution
Not Cited

Year
2014

Leukemia

Casein kinase 2 controls the survival of normal thymic and leukemic T cells via promotion of AKT signaling.

"22190372 was used in blocking or activating experiment and flow cytometry to identify a role for CK2 in healthy human thymocytes in the selection of the gamma delta T-cell lineage"

Authors: Ribeiro ST, Tesio M, Ribot JC, Macintyre E, Barata JT, Silva-Santos B

Species
Human

Dilution
Not Cited

Year
2017

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