

CD3 (UCHT1)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4053012
	100	5	500	4053015
PerCP	50	5	250	4053032
	100	5	500	4053035
APC-iFluor™ 700	50	5	250	4053172
	100	5	500	4053175
PerCP-Cyanine5.5	50	5	250	4053062
	100	5	500	4053065
PE-Cyanine5	50	5	250	4053072
	100	5	500	4053075
iFluor™ 488	50	5	250	4053112
	100	5	500	4053115
iFluor™ 700	50	5	250	4053192
	100	5	500	4053195
mFluor™ 450	50	5	250	4053142
	100	5	500	4053145
iFluor™ 594	50	5	250	4053132
	100	5	500	4053135
PE-CF594	50	5	250	4053202
	100	5	500	4053205

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Antigen: CD3ε
Immunogen: Thymocytes and peripheral blood lymphocytes from a Sézary Syndrome donor.
Host/Isotype: Mouse, IgG1,κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN₃ and 0.2% (w/v) BSA
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry.

Antigen Information

The monoclonal UCHT1 clone recognizes CD3ε antigen, a 20KDa transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. The CD3 complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains. These chains associate with a molecule known as the T-cell receptor (TCR) and the ζ-chain (zeta-chain) to generate an activation signal in T lymphocytes. CD3ε is expressed on T lymphocytes, NK-T cells, and to a varying degree, developing thymocytes. CD3 plays central roles in TCR signaling, T lymphocyte activation, and antigen recognition. Crosslinking of the TCR via plate bound UCHT1 monoclonal antibody is widely used to study, *in vitro*, the activation T cells.

References

1. Brown V, et al. 1987. *Leuk Res.* 11:903.
2. Salter DM, et al. 1985. *J. Pathol.* 146:345.
3. Blanchard N et al. 2002. *J. Immunol.* 168:3235-3241
4. Cavassani et al. 2006. *J. Immunol.* 177:5811-5818.

*Analyte Specific Reagent. The analytical and performance characteristics of this ASR product are not established.

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