

CD3 (UCHT1)

Type	Size	Catalog number
unconjugated	100µg	105301
	500µg	105303
FITC	25 tests	105314
	100 tests	105315
	200 tests	105316
PE	25 tests	105324
	100 tests	105325
	200 tests	105326
APC	25 tests	105344
	100 tests	105345
	200 tests	105346
APC-iFluor™ 700	25 tests	1053174
	100 tests	1053175
	200 tests	1053176
PE-Cyanine7	25 tests	105384
	100 tests	105385
	200 tests	105386
iFluor™488	25 tests	1053114
	100 tests	1053115
	200 tests	1053116
iFluor™647	25 tests	1053124
	100 tests	1053125
	200 tests	1053126
iFluor™700	25 tests	1053194
	100 tests	1053195
	200 tests	1053196
mFluor™450	25 tests	1053144
	100 tests	1053145
	200 tests	1053146

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 (unconjugated)
 PBS, pH7.2, 0.09% NaN3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry

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Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg (unconjugated, Biotin) or 5µl (conjugated) of these products are sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.

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 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.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.