Caprico Biotechnologies

TECHNICAL DATA SHEET

CD4 (OKT4)

Type	Size	Catalog number
unconjugated	100µg	100401
	500µg	100403
FITC	25 tests	100414
	100 tests	100415
	200 tests	100416
PE	25 tests	100424
	100 tests	100425
	200 tests	100426
APC	25 tests	100444
	100 tests	100445
	200 tests	100446
PE-Cyanine 7	25 tests	100484
	100 tests	100485
	200 tests	100486
PerCP-Cyanine 5.5	25 tests	100464
	100 tests	100465
	200 tests	100466
iFluor™ 488	25 tests	1004114
	100 tests	1004115
	200 tests	1004116
iFluor™ 647	25 tests	1004124
	100 tests	1004125
	200 tests	1004126
iFluor™ 700	25 tests	1004194
	100 tests	1004195
	200 tests	1004196
mFluor™ 450	25 tests	1004144
	100 tests	1004145
	200 tests	1004146
Biotin	100µg	100451

Antigen: CD4
Immunogen: Human peripheral blood T lymphocytes
Host/Isotype: Mouse, IgG2b,κ
Reactivity: Human, Rhesus, Cynomolgus
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09%NaN_3 (unconjugated, Biotin)
PBS, pH7.2, 0.09% NaN_3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**

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Feb. 2019

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Applications: Flow Cytometry

- iFluor and mFluor are trademarks of AAT Bioquest, Inc.

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. Non-human primate cross-reactivity has been validated using Caprico's PerCP-Cyanine5.5 conjugated OKT4 product.

Antigen Information

CD4 is a 55kD type I transmembrane glycoprotein and a member of the immunoglobulin superfamily. It is a specific marker for T lymphocytes, monocytes, macrophages, and dendritic cells. Through interaction of MHC-II, CD4 facilitates cell-cell interaction, thymic differentiation, and activation of downstream signaling cascades. HIV infection of T-cells is instigated through binding of HIV to CD4. The OKT4 antibody binds to the D3 domain of CD4 and does not inhibit HIV binding.

References

1. Hoffman, R.A, et al. 1980. Proc Natl Acad Sci USA. 77:4914.
2. Hernberg, MM, et al. 2004. Melanoma Res. 14:493.
3. Linder, J, et al. 1987. Am J Pathol. 127:1.
4. Reinherz, E.L, et al. 1979. Proc Natl Acad Sci USA. 76:4061.
5. Toda, T, et al. 2012. Immunobiology. 217:864.

Terms and Conditions

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

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