

CD4 (OKT4)

Analyte Specific Reagent (ASR)*

Type	Number of tests	Volume per test (μL)	Total volume (μL)	Catalog number
FITC	50	5	250	4004012
	100	5	500	4004015
PE	50	5	250	4004022
	100	5	500	4004025
APC	50	5	250	4004042
	100	5	500	4004045
iFluor™488	50	5	250	4004112
	100	5	500	4004115
iFluor™700	50	5	250	4004192
	100	5	500	4004195
PE-Cyanine7	50	5	250	4004082
	100	5	500	4004085

❖ iFluor is a trademark of AAT Bioquest, Inc.

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 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 mouse monoclonal antibody OKT4 clone binds with a 55 kD type I transmembrane glycoprotein known as CD4 and a member of the immunoglobulin superfamily. CD4 is a specific marker of a subset of peripheral T lymphocytes, monocytes, macrophages, and dendritic cells. Through interaction with the MHC-II, CD4 facilitates cell-cell interaction, thymic differentiation, and activation of downstream signaling cascades. HIV infection of CD4+ 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

- Hoffman RA, et al. 1980. *Proc Natl Acad Sci USA*. 77:4914.
- Hernberg MM, et al. 2004. *Melanoma Res*. 14:493.
- Linder J, et al. 1987. *Am J Pathol*. 127:1.
- Reinherz EL, et al. 1979. *Proc Natl Acad Sci USA*. 76:4061.
- Toda T, et al. 2012. *Immunobiology*. 217:864.

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