

CD1a (OKT6)

Type	Size	Catalog number
Unconjugated	100µg	111501
	500µg	111503
FITC	25 tests	111514
	100 tests	111515
	200 tests	111516
iFluor™ 647	25 tests	1115124
	100 tests	1115125
	200 tests	1115126

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Antigen:	CD1a
Immunogen:	Human acute lymphoblastic leukemia cells
Host/Isotype:	Mouse, IgG2a, κ
Reactivity:	Human
Purity:	>90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation:	PBS, pH7.2, 0.09%NaN ₃
Storage:	Store at 2-8°C and protected from prolonged exposure to light. Do not freeze.
Applications:	Flow Cytometry

Application Information

Each lot of these antibodies has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg of this product is 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 clone OKT6, a mouse monoclonal antibody selectively recognizes 49-kDa type I transmembrane glycoprotein non-covalently associated with β2-microglobulin known as CD1a. The CD1a glycoprotein has structural similarities to MHC class I molecule and plays important role in antigen-presenting mechanism to T-cell receptors present on NK T-cells. It is expressed on cortical double positive and single positive thymocytes, Langerhans cells, and dendritic cells. In addition to antigen presentation NK T-cells, CD1a has been implicated in thymic T cell development. CD1a has been used as a marker for DCs in a range of human tumors and the density of CD1a DC has been associated with clinical outcome in patients with lung, colon, gastric, nasopharyngeal, laryngeal and tongue carcinomas.

References

1. Su, Kaihong, et al. 2007. *J. Immunol*, 178:3272-3280.
2. Blumberg RS, et al. 1995. *Immunol. Rev.* 147:5.
3. Calabi F, et al. 1991. *Tissue Antigens* 37:1.
4. Melian A, et al. 1996. *Curr. Opin. Immunol.* 8:83.
5. Martin LH, et al. 1987. *Proc Natl Acad Sci USA.* 84:9189.
6. Coventry BJ, et al. 2003. *Br. J. Cancer.* 89:533.

Terms and Conditions

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