

FITC anti-human CD1a Antibody

Catalog# / Size	344909 / 25 tests 344910 / 100 tests
Clone	SK9
Regulatory Status	RUO
Other Names	T6, R4, Leu-6
Isotype	Mouse IgG2b, κ
Description	CD1a is a 49 kD member of the immunoglobulin superfamily also known as T6 and R4. It is a type I membrane glycoprotein with structural similarities to MHC class I and is non-covalently associated with β 2-microglobulin. CD1a plays a role in non-peptide glycolipid antigen presentation to CD1-restricted T cells. It is expressed on cortical double positive and single positive thymocytes, Langerhans cells, and dendritic cells. In addition to antigen presentation, CD1a has been implicated in thymic T cell development.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported application (for the relevant formats) includes: immunoprecipitation and immunohistochemical staining of frozen sections. ²
Application References	1. Wood GS, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:212. 2. Facy V, <i>et al.</i> 2005. <i>Toxicol in Vitro.</i> 6:787-95.
(PubMed link indicates BioLegend citation)	
RRID	AB_3683369 (BioLegend Cat. No. 344909) AB_3683369 (BioLegend Cat. No. 344910)

Antigen Details

Structure	Ig superfamily, MHC I-like molecule, type I transmembrane glycoprotein, 49 kD
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Distribution	Cortical thymocytes, Langerhans cells, dendritic cells
Function	Antigen presentation, lymphocyte activation, thymic T cell development
Ligand/Receptor	CD1-restricted TCRs
Cell Type	Dendritic cells, Langerhans cells, Thymocytes
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules, TCRs
Antigen References	1. Wood GS, <i>et al.</i> 1983. <i>J. Immunol.</i> 131:212. 2. Wood GS, <i>et al.</i> 1985. <i>Am. J. Pathol.</i> 120:371. 3. Martin LH, <i>et al.</i> 1987. <i>P. Natl. Acad. Sci. USA</i> 84:9189.
Gene ID	909

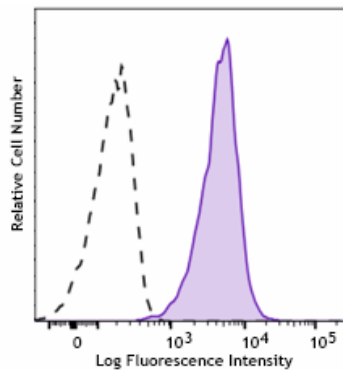
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD1a, PE anti-human CD1a, APC anti-human CD1a, GMP APC anti-human CD1a, FITC anti-human CD1a, GMP PE anti-human CD1a

Product Data



MOLT-4 cells (a human T lymphoblastic leukemia cell line) were stained with anti-human CD1a (clone SK9) FITC (filled histogram) or mouse IgG2b, κ FITC isotype control (open histogram).

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