Spark PLUS UV395™ anti-human CD1a Antibody

Catalog# / Size	300149 / 25 tests 300150 / 100 tests
Clone	HI149
Regulatory Status	RUO
Workshop	V CD01.01
Other Names	T6, R4
Isotype	Mouse IgG1, 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 Spark PLUS UV395™ 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 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.
Excitation Laser	Ultraviolet Laser (355 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections.
Application References **(PubMed link indicates BioLegend citation)**	1. Schlossman S, *et al.* Eds. 1995. Leucocyte Typing V. Oxford University Press. New York. 2. Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York. 3. Patton KM, *et al.* 2005. *Infect. Immun.*73:2083. PubMed 4. Curti A, *et al.* 2010. *Haematologica.* 95:2022. PubMed
RRID	AB_3683297 (BioLegend Cat. No. 300149) AB_3683297 (BioLegend Cat. No. 300150)

Antigen Details

Structure	Ig superfamily, MHC I-like molecule, type I transmembrane glycoprotein, 49 kD
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
Antigen References	1. Blumberg RS, *et al.* 1995. *Immunol. Rev.* 147:5. 2. Calabi F, *et al.* 1991. *Tissue Antigens* 37:1. 3. Melian A, *et al.* 1996. *Curr. Opin. Immunol.* 8:82.
Gene ID	909

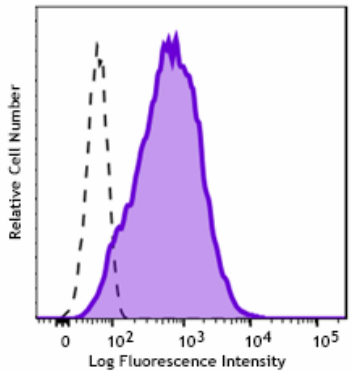
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

FITC anti-human CD1a, PE anti-human CD1a, PE/Cyanine5 anti-human CD1a, APC anti-human CD1a, Purified anti-human CD1a, Biotin anti-human CD1a, Alexa Fluor® 488 anti-human CD1a, Alexa Fluor® 647 anti-human CD1a, Pacific Blue™ anti-human CD1a, Alexa Fluor® 700 anti-human CD1a, Brilliant Violet 421™ anti-human CD1a, PE/Cyanine7 anti-human CD1a, APC/Cyanine7 anti-human CD1a, PerCP/Cyanine5.5 anti-human CD1a, PE/Dazzle™ 594 anti-human CD1a, TotalSeq™-A0402 anti-human CD1a, TotalSeq™-C0402 anti-human CD1a, Brilliant Violet 711™ anti-human CD1a, APC/Fire™ 750 anti-human CD1a, Brilliant Violet 605™ anti-human CD1a, TotalSeq™-B0402 anti-human CD1a, TotalSeq™-D0402 anti-human CD1a, Brilliant Violet 510™ anti-human CD1a, Spark PLUS UV395™ anti-human CD1a

Product Data



Human MOLT-4 cells were stained with anti-human CD1a (clone HI149) Spark PLUS UV395™ (filled histogram) or mouse IgG1, κ Spark PLUS UV395™ isotype control (open histogram).

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587