

Spark Red™ 718 anti-human HLA-A2 Antibody

Catalog# / Size	343339 / 25 tests 343340 / 100 tests
Clone	BB7.2
Regulatory Status	RUO
Other Names	MHC-class I
Isotype	Mouse IgG2b, κ
Description	HLA-A2 is most common in Northern Asia and North America populations. MHC class I antigens associated with β 2-microglobulin are expressed by all human nucleated cells. MHC class I molecules are involved in presentation of antigens to CD8 ⁺ T cells, playing an important role in cell-mediated immune responses and tumor surveillance.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Papain solubilized HLA-A2
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 Red™ 718 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. * Spark Red™ 718 has a maximum excitation of 697 nm and a maximum emission of 711 nm.
Excitation Laser	Red Laser (633 nm)
Application Notes	The BB7.2 antibody recognizes human leukocyte antigen (HLA) A2 which is a subset of MHC-class I molecules encoded by A*02 alleles. Additional reported applications (for the relevant formats) include: immunoprecipitation ³ .
Application References	1. Brodsky FM, <i>et al.</i> 1979. <i>Immunol. Rev.</i> 47:3. 2. Parham P and Brodsky FM. <i>et al.</i> 1981. <i>Hum. Immunol.</i> 3:277. 3. Lubben NB, <i>et al.</i> 2007. <i>Mol Biol Cell.</i> 18:3351. (IP)
(PubMed link indicates BioLegend citation)	

Antigen Details

Structure	Ig superfamily
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Distribution	A*02 individuals leukocytes
Function	Antigen presentation
Ligand/Receptor	CD8, CD3/TCR
Cell Type	Leukocytes
Biology Area	Immunology
Molecular Family	MHC Antigens
Gene ID	3105

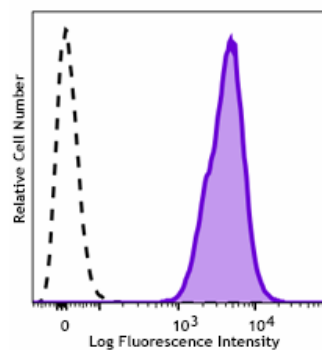
Related Protocols

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

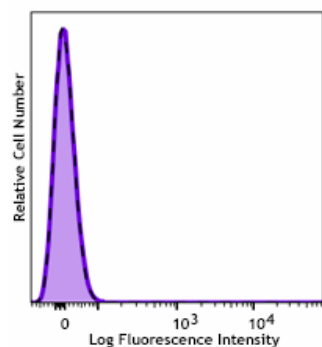
Other Formats

PE/Dazzle™ 594 anti-human HLA-A2 Antibody, TotalSeq™-B0899 anti-human HLA-A2, TotalSeq™-C0899 anti-human HLA-A2, Biotin anti-human HLA-A2, Brilliant Violet 785™ anti-human HLA-A2, Brilliant Violet 650™ anti-human HLA-A2, APC anti-human HLA-A2, APC/Cyanine7 anti-human HLA-A2, Pacific Blue™ anti-human HLA-A2, PE/Cyanine7 anti-human HLA-A2, PerCP/Cyanine5.5 anti-human HLA-A2, Spark Red™ 718 anti-human HLA-A2 (Flexi-Fluor™), Spark Blue™ 574 anti-human HLA-A2 (Flexi-Fluor™), Spark Red™ 718 anti-human HLA-A2 Antibody, Brilliant Violet 510™ anti-human HLA-A2, APC/Fire™ 750 anti-human HLA-A2, TotalSeq™-A0899 anti-human HLA-A2, Brilliant Violet 421™ anti-human HLA-A2, Purified anti-human HLA-A2, FITC anti-human HLA-A2, PE anti-human HLA-A2, Alexa Fluor® 700 anti-human HLA-A2, Spark Blue™ 550 anti-human HLA-A2 (Flexi-Fluor™)

Product Data



HLA-A2 positive human peripheral blood lymphocytes were stained with anti-human HLA-A2 (clone BB7.2) Spark Red™ 718 (filled histogram) or mouse IgG2b, κ Spark Red™ 718 isotype control (open histogram).



HLA-A2 negative human peripheral blood lymphocytes were stained with anti-human HLA-A2 (clone BB7.2) Spark Red™ 718 (filled histogram) or mouse IgG2b, κ Spark Red™ 718 isotype control (open histogram).

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