

Purified anti-human HLA-A2 Antibody

Catalog# / Size	343302 / 100 µg
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 β2-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.
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested IP - Reported in the literature, not verified in house
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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
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	<ol style="list-style-type: none">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)
Product Citations	<ol style="list-style-type: none">1. Chou JM, <i>et al.</i> 2022. <i>Front Microbiol.</i> 13:883597. PubMed2. Willimsky G, <i>et al.</i> 2021. <i>Elife.</i> 10:. PubMed3. Reithofer M, <i>et al.</i> 2020. <i>Eur J Immunol.</i> 51:721. PubMed4. Jensen SM, <i>et al.</i> 2018. <i>Front Immunol.</i> 9:2697. PubMed5. Chheda ZS, <i>et al.</i> 2018. <i>J Exp Med.</i> 9:19490. PubMed6. Song S, <i>et al.</i> 2021. <i>Front Immunol.</i> 12:705140. PubMed7. Matsuoka K, <i>et al.</i> 2022. <i>J Biol Chem.</i> :101724. PubMed
RRID	AB_1659243 (BioLegend Cat. No. 343302)

Antigen Details

Structure	Ig superfamily
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

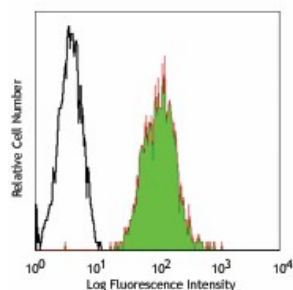
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

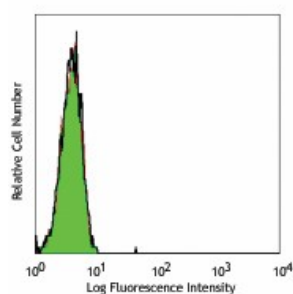
Other Formats

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

Product Data



HLA-A2+ (top) and HLA-A2- (bottom) donors' peripheral blood lymphocytes stained with BB7.2 FITC



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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