

TotalSeq™-B0899 anti-human HLA-A2 Antibody

Catalog# / Size	343335 / 10 µg
Clone	BB7.2
Regulatory Status	RUO
Other Names	MHC-class I
Isotype	Mouse IgG2b, κ
Barcode Sequence	GAACATTTCCGACAA
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 and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions.
Concentration	0.5 mg/mL
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	<p>The BB7.2 antibody recognizes human leukocyte antigen (HLA) A2 which is a subset of MHC-class I molecules encoded by A*02 alleles.</p> <p>Additional reported applications (for the relevant formats) include: immunoprecipitation³.</p>
Additional Product Notes	<p>TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq.</p> <p>The barcode flanking sequences are GTGACTGGAGTTCAGACGTGTGCTCTCCGATCTNNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*A*A (capture sequence). N represents either</p>

randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

(PubMed link indicates BioLegend citation)

1. Brodsky FM, *et al.* 1979. *Immunol. Rev.* 47:3.
2. Parham P and Brodsky FM. *et al.* 1981. *Hum. Immunol.* 3:277.
3. Lubben NB, *et al.* 2007. *Mol Biol Cell.* 18:3351. (IP)

RRID AB_2904363 (BioLegend Cat. No. 343335)

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

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

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

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