

## TotalSeq™-C0899 anti-human HLA-A2 Antibody

<b>Catalog# / Size</b>	343337 / 10 µg
<b>Clone</b>	BB7.2
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	MHC-class I
<b>Isotype</b>	Mouse IgG2b, κ
<b>Barcode Sequence</b>	GAACATTTCCGACAA
<b>Description</b>	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 <sup>+</sup> T cells, playing an important role in cell-mediated immune responses and tumor surveillance.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Papain solubilized HLA-A2
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
<b>Preparation</b>	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">PG - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling <a href="#">Solution</a>.</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>
<b>Application Notes</b>	<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: immunoprecipitation<sup>3</sup>.</p>
<b>Additional Product Notes</b>	<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. <a href="#">10x Genomics Chromium System and Reagents</a>) and sequencer (e.g. Illumina analyzers) are required. Please contact <a href="#">technical support</a> for more information, or visit <a href="http://biolegend.com/totalseq">biolegend.com/totalseq</a>.</p> <p>The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly</p>

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\_2904364 (BioLegend Cat. No. 343337)

## Antigen Details

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

## Related Protocols

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

## Other Formats

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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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