

## TotalSeq™-A0436 anti-Biotin Antibody

<b>Catalog# / Size</b>	409008 / 10 µg
<b>Clone</b>	1D4-C5 (See other available formats)
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	Biotin (vitamin B7 or vitamin H) is essential for cell growth and the metabolization of fat and protein. It is also often used to tag a molecule of interest. The anti-biotin antibody can be used as a second-step reagent for detecting biotinylated targets.

### Product Details

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<b>Reactivity</b>	2nd step
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Biotinylated limulus hemocyanin
<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™-A oligomer under optimal conditions. The solution is free of unconjugated DNA and unconjugated antibody.
<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>	<i>PG - Quality tested</i>
<b>Recommended Usage</b>	<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. For Proteogenomics TotalSeq™-A analysis, the suggested use of this reagent is ≤ 1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>To maximize performance, centrifuge the antibody dilution (1.0 µg of antibody in 100 µl of staining buffer for every 1 million cells) 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.</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>	Additional reported applications (for relevant formats) include: immunoprecipitation and ELISA.
<b>Additional Product Notes</b>	<p>TotalSeq™ reagents are designed to profile protein expression 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="#">biolegend.com/totalseq</a>.</p> <p>The TotalSeq™-A barcode sequence associated with clone 1D4-C5 is CGGTATATCAACAGA.</p> <p>The flanking sequences are CCTTGGCACCCGAGAATTCCA, and the capture sequence, BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A, B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p> <p>The full oligomer sequence for this product, with the specific barcode in brackets is CCTTGGCACCCGAGAATTCCA [CGGTATATCAACAGA] BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A.</p>
<b>Application References</b>	<ol style="list-style-type: none"> <li>Uccellini MB, et al. 2008. J. Immunol. 181:5875.</li> <li>Green NM, et al. 2012. J Biol Chem. 287:39789. PubMed.</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	

### Antigen Details

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## Related Protocols

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[TotalSeq™-A Antibodies Protocol for Simultaneous Proteomics and Transcriptomics with 10X Single Cell 3' Reagent Kit v2](#)

[TotalSeq™-A antibodies with 10X Single Cell 3' Reagent Kit v3 Protocol](#)

## Other Formats

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Purified anti-Biotin, PE anti-Biotin, LEAF™ Purified anti-Biotin, Purified anti-Biotin (Maxpar® Ready)

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