

## TotalSeq™-A0813 anti-mouse CD9 Antibody

<b>Catalog# / Size</b>	124819 / 10 µg
<b>Clone</b>	MZ3
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	DRAP-27, MRP-1, p-24
<b>Isotype</b>	Rat IgG2a, κ
<b>Barcode Sequence</b>	TAGCAGTCACTCCTA
<b>Description</b>	CD9 is a surface glycoprotein of the tetraspannin family. It is expressed on a variety of cells, including nerve, muscle cells and many cells of hematopoietic origin. CD9 is found to participate in forming a large molecular cell complex with other membrane proteins, such as MHC class II, CD19, CD5 and other TM4SF molecules. It is reported that CD9 is a marker of marginal zone B cells, B1 cells and plasma cells. The diverse functions of CD9 may largely depend upon its associated molecules on different cells.

### Product Details

<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<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.
<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™-A antibodies are compatible with 10x Genomics Single Cell Gene Expression <a href="#">Solutions</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>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="#">biolegend.com/totalseq</a>.</p> <p>The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A (capture sequence). B represents either C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.</p> <p>View more applications data for this product in our <a href="#">Scientific Poster Library</a>.</p>

**Application References** 1. Won WJ, *et al.* 2002. *J. Immunol.* 168:5605. (FC, WB)

(PubMed link indicates  
BioLegend citation)

**RRID** AB\_2800600 (BioLegend Cat. No. 124819)

## Antigen Details

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<b>Structure</b>	24 kd surface glycoprotein belonging to the tetraspanin (TM4SF) family which is characterized by four transmembrane-spanning domains and two extracellular domains.
<b>Distribution</b>	CD9 is expressed in nerve, muscle, keratinocytes, fibroblasts and a variety of hematopoietic cells including monocytes, macrophages, granulocytes, platelets and activated T and B cells.
<b>Interaction</b>	CD9 may participate in forming large molecular complexes with other associated molecules.
<b>Cell Type</b>	B cells, Embryonic Stem Cells, Fibroblasts, Granulocytes, Macrophages, Monocytes, Platelets, T cells
<b>Biology Area</b>	Immunology, Stem Cells
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Boucheix C, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:117 2. Lanza F, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:10638
<b>Gene ID</b>	<a href="#">12527</a>

## Related Protocols

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[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 Protocol](#)

## Other Formats

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Purified anti-mouse CD9, Biotin anti-mouse CD9, PE anti-mouse CD9, FITC anti-mouse CD9, Alexa Fluor® 647 anti-mouse CD9, APC anti-mouse CD9, PE/Cyanine7 anti-mouse CD9, APC/Fire™ 750 anti-mouse CD9, PerCP/Cyanine5.5 anti-mouse CD9, TotalSeq™-A0813 anti-mouse CD9, PE/Dazzle™ 594 anti-mouse CD9, TotalSeq™-C0813 anti-mouse CD9, TotalSeq™-B0813 anti-mouse CD9

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