

## TotalSeq™-C0213 anti-human Notch 1 Antibody

<b>Catalog# / Size</b>	352115 / 10 µg
<b>Clone</b>	MHN1-519
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Neurogenic locus notch homolog protein 1 (Notch 1), Translocation-associated notch protein (TAN-1), Motch A, mT14, p300
<b>Isotype</b>	Mouse IgG1, κ
<b>Barcode Sequence</b>	AATCTGTAGTGCGTT
<b>Description</b>	<p>Notch 1, also known as TAN-1, is a transmembrane protein. Its extracellular domain contains 29 epidermal growth factor-like (EGF) repeats and 3 Lin/Notch Glp (LNR) repeats, the intracellular domain contains 5 CDC10/Ankryn repeats (ANK), 1 proline, glutamate, serine, threonine-rich (PEST) motif, and 1 regulation of amino acid metabolism 23 (RAM23) domain. Notch 1 regulates the development, differentiation, and survival of a broad spectrum of cell lineages. It is involved in myogenesis, neurogenesis, gliogenesis, and lymphocyte development, resulting in Notch 1 expression in many organs such as brain, lung, thymus, spleen, bone marrow, spinal cord, eyes, mammary gland, liver, intestine, kidney, and heart. Notch 1 ligands are Jagged 1, Jagged 2, Delta 1, and Delta 4. Upon ligand binding, the intracellular domain of Notch 1 is cleaved and translocates to the cell nucleus where it forms a transcriptional activator complex with RBP-J κ.</p>

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Recombinant human Notch1-Fc fusion protein
<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>	Additional reported applications (for the relevant formats) include: blocking Notch 1 mediated binding to DLL4 in human cord blood CD34 <sup>+</sup> cells <sup>1</sup> .

<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 CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, 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>
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> <li>Haraguchi K, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:6168. (Block)</li> <li>Yamanda S, <i>et al.</i> 2009. <i>Blood</i> 113:3631. (FC)</li> <li>Guy CS. <i>et al.</i> 2013. <i>Nat Immunol.</i> 14:262. <a href="#">PubMed</a></li> </ol>
<b>RRID</b>	AB_2860919 (BioLegend Cat. No. 352115)

## Antigen Details

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<b>Structure</b>	Transmembrane protein. The extracellular domain contains 29 EGF repeats and 3 LNR repeats. The intracellular domain contains 5 CDC10/ANK, 1 PEST motif, and 1 RAM23 domain.
<b>Distribution</b>	Highly expressed in the brain, lung, and thymus. Lower levels of expression in spleen, bone marrow, spinal cord, eyes, mammary gland, liver, intestine, kidney, and heart.
<b>Function</b>	Regulates development, differentiation, and survival of a broad spectrum of cell lineages. Involved in myogenesis, neurogenesis, gliogenesis, and lymphocyte development.
<b>Interaction</b>	RBP-J κ.
<b>Ligand/Receptor</b>	Jagged 1, Jagged 2, Delta 1, Delta 4.
<b>Cell Type</b>	B cells, Neural Stem Cells, Thymocytes
<b>Biology Area</b>	Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers, Stem Cells, Synaptic Biology
<b>Molecular Family</b>	Postsynaptic proteins
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>Vicente R, <i>et al.</i> 2010. <i>Semin. Immunol.</i> 22:270.</li> <li>Zhao WL. 2010. <i>Leukemia</i> 24:13.</li> <li>Sanda T, <i>et al.</i> 2010. <i>Blood</i> 115:1735.</li> <li>Zhou J, <i>et al.</i> 2009. <i>Immunity</i> 31:356.</li> </ol>
<b>Gene ID</b>	<a href="#">4851</a>

## Related Protocols

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

## Other Formats

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Purified anti-human Notch 1, PE anti-human Notch 1, APC anti-human Notch 1, TotalSeq™-A0213 anti-human Notch 1, Ultra-LEAF™ Purified anti-human Notch 1, TotalSeq™-C0213 anti-human Notch 1, TotalSeq™-B0213 anti-human Notch 1

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