

PE anti-human Notch 1 Antibody

| | |
|--------------------------|--|
| Catalog# / Size | 352105 / 25 tests 352106 / 100 tests |
| Clone | MHN1-519 |
| Regulatory Status | RUO |
| Other Names | Neurogenic locus notch homolog protein 1 (Notch 1), Translocation-associated notch protein (TAN-1), Motch A, mT14, p300 |
| Isotype | Mouse IgG1, κ |
| Description | 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. |

Product Details

| | |
|---|---|
| Verified Reactivity | Human |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Recombinant human Notch1-Fc fusion protein |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm) |
| Application Notes | Additional reported applications (for the relevant formats) include: blocking Notch 1 mediated binding to DLL4 in human cord blood CD34 ⁺ cells ¹ . |
| Application References | <ol style="list-style-type: none"> 1. Haraguchi K, <i>et al.</i> 2009. <i>J. Immunol.</i> 182:6168. (Block) 2. Yamanda S, <i>et al.</i> 2009. <i>Blood</i> 113:3631. (FC) 3. Guy CS. <i>et al.</i> 2013. <i>Nat Immunol.</i> 14:262. PubMed |
| (PubMed link indicates BioLegend citation) | |
| Product Citations | <ol style="list-style-type: none"> 1. Kumar V, <i>et al.</i> 2022. <i>Cells.</i> 11: PubMed 2. Pozzo F, <i>et al.</i> 2017. <i>Leukemia.</i> 10.1038/leu.2017.90. PubMed 3. Canté-Barrett K, <i>et al.</i> 2022. <i>JCI Insight.</i> :. PubMed |

RRID AB_10896419 (BioLegend Cat. No. 352105)
AB_10900817 (BioLegend Cat. No. 352106)

Antigen Details

| | |
|---------------------------|--|
| Structure | 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. |
| Distribution | 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. |
| Function | Regulates development, differentiation, and survival of a broad spectrum of cell lineages. Involved in myogenesis, neurogenesis, gliogenesis, and lymphocyte development. |
| Interaction | RBP-J κ . |
| Ligand/Receptor | Jagged 1, Jagged 2, Delta 1, Delta 4. |
| Cell Type | B cells, Neural Stem Cells, Thymocytes |
| Biology Area | Cell Biology, Immunology, Innate Immunity, Neuroscience, Neuroscience Cell Markers, Stem Cells, Synaptic Biology |
| Molecular Family | Postsynaptic proteins |
| Antigen References | 1. Vicente R, <i>et al.</i> 2010. <i>Semin. Immunol.</i> 22:270. 2. Zhao WL. 2010. <i>Leukemia</i> 24:13. 3. Sanda T, <i>et al.</i> 2010. <i>Blood</i> 115:1735. 4. Zhou J, <i>et al.</i> 2009. <i>Immunity</i> 31:356. |
| Gene ID | 4851 |

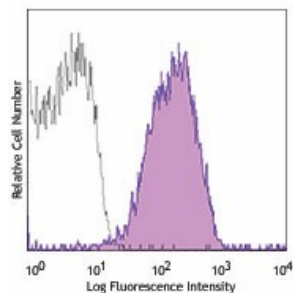
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

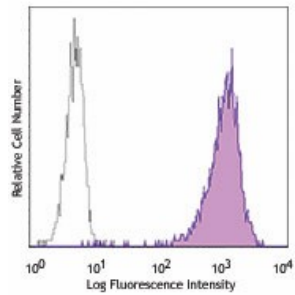
Other Formats

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

Product Data



PHA-stimulated (3 days) human peripheral blood lymphocytes were stained with Notch 1 (clone MHN1-519) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).



Human Notch 1 transfected CHO cells were stained with Notch 1 (clone MHN1-519) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587