

NOTCH1 Monoclonal Antibody (mN1A), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	mN1A
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465938

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	1 Publication

Product Specific Information

Description: The Notch family of transmembrane receptors controls cell-fate decisions during the development of many organs in a wide variety of species. After binding its ligand, the Notch receptor is cleaved in its transmembrane domain, and the resulting intracellular domain dissociates from the membrane and translocates to the nucleus, where it is able to suppress the expression of lineage-specific genes by interacting with transcriptional repressors. The mN1A antibody reacts with the intracellular domain of mouse and human Notch1, but not with Notch2, 3, or 4. The mN1A antibody has a low affinity for the full-length (unprocessed or heterodimeric cell surface) forms of Notch1. In the mouse, Notch mRNA is expressed in mouse hematopoietic cells of the fetal liver and adult thymus and bone marrow. In the thymus, Notch1 protein is detected in CD4-CD8- (double-negative) and CD4-CD8+ (single-positive) thymocytes. Studies of Notch1-transgenic cells and Notch1-null mice indicate that the receptor is involved in the regulation of lymphopoiesis and myelopoiesis.

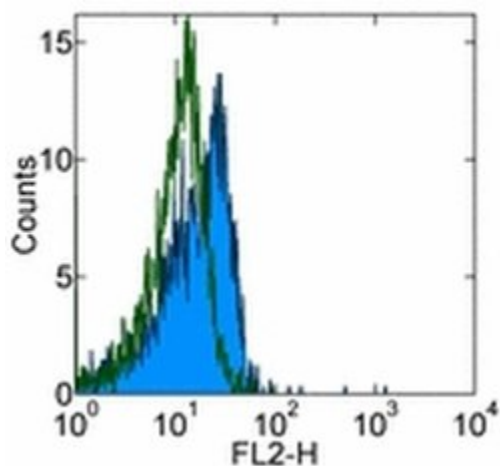
Applications Reported: This mN1A antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This mN1A antibody has been tested by intracellular staining and flow cytometric analysis of mouse thymocytes using the Intracellular Fixation and Permeabilization Buffer Set (cat. 88-8824) and protocol. Please refer to Best Protocols: Protocol A: Two step protocol for (cytoplasmic) intracellular proteins located under the Resources Tab online. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For NOTCH1 Monoclonal Antibody (mN1A), PE, eBioscience™



NOTCH1 Antibody (12-5785-82) in Flow

Intracellular staining of C57BL/6 thymocytes with 0.06 µg of Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (open histogram) or 0.125 µg of Anti-Human/Mouse Notch1 PE (filled histogram) using the Intracellular Fixation and Permeabilization Buffer Set (Product # 88-8824-00) and protocol. CD4-CD8. thymocytes were used for analysis.

1 Reference

Flow Cytometry (1)

Frontiers in oncology

NOTCH1 Is Aberrantly Activated in Chronic Lymphocytic Leukemia Hematopoietic Stem Cells.

"12-5785 was used in Flow cytometry/Cell sorting to propose that NOTCH1 may contribute to aberrant hematopoietic stem cells in chronic lymphocytic leukemia."

Authors: Di Ianni M, Baldoni S, Del Papa B, Aureli P, Dorillo E, De Falco F, Albi E, Varasano E, Di Tommaso A, Giancola R, Accorsi P, Rotta G, Rompietti C, Silva Barcelos EC, Campese AF, Di Bartolomeo P, Screpanti I, Rosati E, Falzetti F, Sportoletti P

Species
Human

Dilution
Not Cited

Year
2020

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