NOTCH1 Monoclonal Antibody (MHN1-519), APC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	MHN1-519
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10670345

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	2 Publications

Product Specific Information

Description: This MHN1-519 monoclonal antibody reacts with human Notch1, one of four members of the Notch family of receptors. Notch receptors are 300-kDa single-pass transmembrane proteins. While the extracellular domain contains numerous epidermal growth factor-like repeats for ligand binding, the intracellular domain is involved in cell signaling. Upon binding its membrane-bound ligand (either Delta or Jagged), the Notch receptor undergoes proteolytic cleavage, first by ADAM-family metalloproteases and then by gamma-secretase. The second cleavage event releases the Notch intracellular domain (NICD), which subsequently translocates into the nucleus, heterodimerizes with the DNA-binding protein RBP-J, recruits co-activator molecules, and ultimately activates transcription.

Notch 1 is expressed on thymocytes, bone marrow hematopoietic stem cells, T and NK cells. Lower Notch1 expression levels can be found on B cells and monocytes. Studies show that some subsets of T-cell acute lymphoblastic leukemia (T-ALL) arise due to Notch1 chromosomal translocation with the TCRbeta gene, which results in the expression of constitutively active Notch1. This cell surface receptor is involved in T cell lineage commitment, thymocyte development, and Th2 differentiation.

The MHN1-519 monoclonal antibody recognizes the extracellular domain of Notch1, and has also been reported to block Notch1 binding to Delta-like 4.

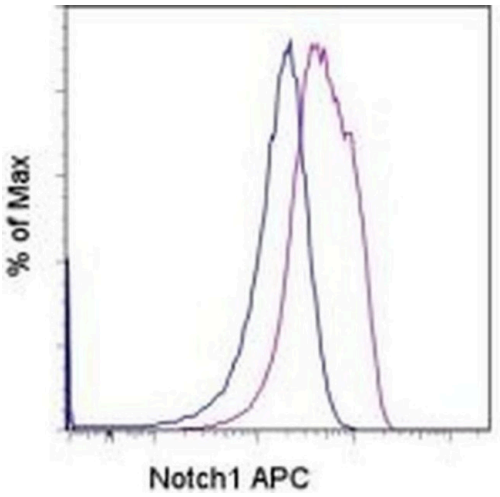
Applications Reported: This MHN1-519 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This MHN1-519 antibody has been pre-titrated and tested by flow cytometric analysis of normal peripheral blood cells. This can be used at 5 µL (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 10^5 to 10^8 cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For NOTCH1 Monoclonal Antibody (MHN1-519), APC, eBioscience™



NOTCH1 Antibody (17-9889-42) in Flow
Normal human peripheral blood cells were either unstimulated (blue histogram) or stimulated with immobilized Anti-Human CD3 Functional Grade Purified (Product # 16-0039-81) for 24 hours (purple histogram) and then stained with Anti-Human Notch1 APC. Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Stem cells (Dayton, Ohio)

Comprehensive Cell Surface Antigen Analysis Identifies Transferrin Receptor Protein-1 (CD71) as a Negative Selection Marker for Human Neuronal Cells.

Authors: Menon V,Thomas R,Elgueta C,Horl M,Osborn T,Hallett PJ,Bartos M,Isacson O,Pruszak J

Year
2019

Species
Human

Dilution
1 µg/mL

Nature cell biology

NOTCH1 mediates a switch between two distinct secretomes during senescence.

"Published figure using NOTCH1 monoclonal antibody (Product # 17-9889-42) in Flow Cytometry"

Authors: Hoare M,Ito Y,Kang TW,Weekes MP,Matheson NJ,Patten DA,Shetty S,Parry AJ,Menon S,Salama R,Antrobus R,Tomimatsu K,Howat W,Lehner PJ,Zender L,Narita M

Year
2016

Species
Human

Dilution
1:50