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Technical Data Sheet

Anti-Human/Mouse Notch1 PE

Catalogue Number : 73111-60

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: mN1A
Format/Conjugate: PE
Concentration: 0.2 mg/mL
Reactivity: Human, Mouse
Laser: Blue (488nm), Yellow/Green (532-561nm)
Peak Emission: 578nm
Peak Excitation: 496nm
Filter: 585/40
Brightness (1=dim,5=brightest): 5
Isotype: Mouse IgG1, kappa
Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
Applications: FC

Description

The mN1A monoclonal antibody reacts with the intracellular domain of human and mouse Notch1 with high affinity for the activated intracellular form and lower affinity for the full length heterodimeric Notch1 forms. It does not react with Notch2,3, or 4 and does not cross-react with rat thymocytes. The neurogenic locus homolog protein 1 (Notch1) is a trasmembrane receptor that regulates cell fate decisions. It is expressed in CD4-CD8- and CD4-CD8+ thymocytes, and plays a role in the regulation of myelopoiesis and lymphopoiesis.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Huppert, S. S., Le, A., Schroeter, E. H., Mumm, J. S., Saxena, M. T., Milner, L. A., ; Kopan, R. (2000). Embryonic lethality in mice homozygous for a processing-deficient allele of Notch1.;Nature,;405(6789), 966-970.

2. Milner, L. A., ; Bigas, A. (1999). Notch as a mediator of cell fate determination in hematopoiesis: evidence and speculation.;Blood,;93(8), 2431-2448.

3. Varnum-Finney, B., Purton, L. E., Yu, M., Brashem-Stein, C., Flowers, D., Staats, S., ... ; Bernstein, I. D. (1998). The Notch ligand, Jagged-1, influences the development of primitive hematopoietic precursor cells.;Blood,;91(11), 4084-4091.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316