

DESCRIPTION

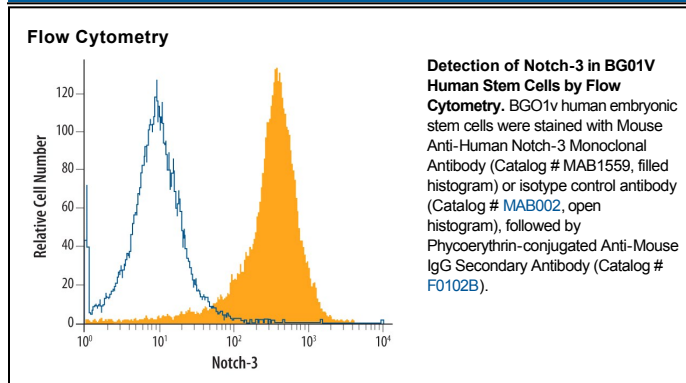
Species Reactivity	Human
Specificity	Detects human Notch-3 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) Notch-3 ICD (aa 2195-2321), rhNotch-1, rhNotch-1 ICD (aa 2251-2556), rhNotch-2, rhNotch-2 ICD (aa 2063-2413), rhNotch-4, rhNotch-4 ICD (aa 1778-2003), recombinant mouse Notch-3, or recombinant rat DLL1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 603532
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Notch-3 Ala40-Glu467 Accession # Q9UM47
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human Notch-3 is a member of the Notch family of type I transmembrane glycoproteins involved in early-event developmental processes. The 2321 amino acid (aa) Notch-3 precursor contains a 1603 aa extracellular region with 34 EGF-like repeats. Repeats 1-11 of human Notch-3 are within the sequence used as an immunogen, and share 94% aa identity with mouse and rat Notch-3. Repeats 11 and 12 are critical for binding the ligands Jagged and Delta. Notch-3 is expressed in vascular smooth muscle, proliferating neuroepithelium, CD4⁺CD8⁻ thymocytes, regulatory T cells and T-ALL leukemia cells. Mutations in the first 5 EGF repeats of Notch-3 in humans can cause CADASIL (cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy).