

DESCRIPTION

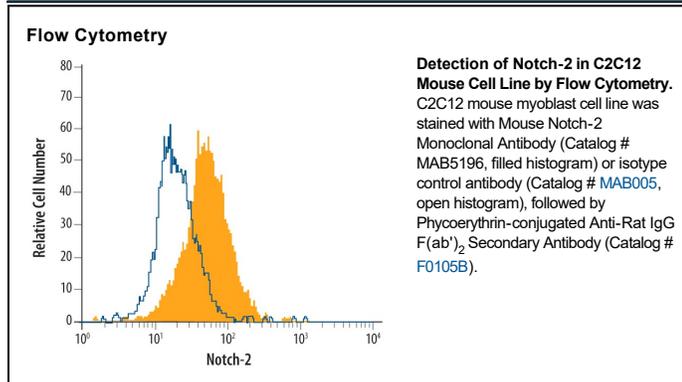
Species Reactivity	Mouse
Specificity	Detects mouse Notch-2 in direct ELISAs. In direct ELISAs, 50-100% cross-reactivity with recombinant human (rh) Notch-2 and no cross-reactivity with rhNotch-1, -2, -3, recombinant mouse (rm) Notch-1, rmNotch-3, recombinant rat (rr) Notch2, or rrDLL1 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 605724
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Notch-2 Leu26-Val528 (predicted) Accession # O35516
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 either lyophilized or 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

Notch-2 (also Notch-2) is a 280-300 kDa member of the notch family of transmembrane (TM) proteins. It is found on multiple cell types and exhibits multiple functions. On CD8⁺ T cells, it augments cytotoxic activity; on pre-B cells, it drives B1 B cell development; on endothelial cells, it induces apoptosis; and on proerythroblasts, it promotes proliferation. Mature mouse Notch-2 is a 2445 amino acid (aa) type I TM glycoprotein. It undergoes Golgi processing to generate a 180-200 kDa extracellular domain (ECD) (aa 26-1606) possibly covalently-linked to a 100-110 kDa membrane bound C-terminal segment (aa 1607-2470). Upon binding to Delta1, Jagged1, or Jagged2, the 110 kDa segment undergoes two cleavages, the second which generates an NICD (notch intracellular domain) that serves as a potential nuclear transcription factor. There are three potential splice variants. One shows a 32 aa substitution for aa 293-2470, a second contains a 13 aa substitution for aa 1-1954, and a third possesses a five aa substitution for aa 224-227 coupled to an 11 aa substitution for aa 1704-1713. Over aa 26-528, mouse Notch-2 shares 96% and 94% aa identity with rat and human Notch-2, respectively.