

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 605724
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Notch-2 Leu26-Val528 (predicted) Accession # O35516
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	C2C12 mouse myoblast cell line

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

Notch-2 (also Motch-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<sup>+</sup> 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.

#### PRODUCT SPECIFIC NOTICES

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