Human Notch-2 Intracellular Domain

Antibody
Monoclonal Rat IgG₂A, Clone # 411801
Catalog Number: MAB3735

DESCRIPTION

Species Reactivity: Human
Specificity: Detects human Notch-2 intracellular domain (ICD) in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human (rh) Notch-1 ICD, recombinant rat (rr) Notch-1 ECD, rrNotch-2 ECD, rhNotch-3 ECD, or rhNotch-4 ICD.

Source: Monoclonal Rat IgG₂A Clone # 411801
Purification: Protein A or G purified from hybridoma culture supernatant
Immunogen: E. coli-derived recombinant human Notch-2 Asp2063-Pro2413 Accession # Q04721.3
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.

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<th>Sample</th>
<th>Recommended Concentration</th>
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<tr>
<td>Western Blot</td>
<td>1 μg/mL Recombinant Human Notch-2 Intracellular Domain</td>
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PREPARATION AND STORAGE

Reconstitution: Reconstitute at 0.5 mg/mL in sterile PBS.

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.
- 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 is a 300 kDa member of the Notch family of transmembrane (TM) proteins. It is synthesized as a 2446 amino acid (aa) type I TM glycoprotein that undergoes Golgi processing to generate a 180 kDa disulfide-linked extracellular domain (ECD) (likely aa 25-1538) and a 110 kDa membrane bound truncated segment (likely aa 1539-2471). Upon binding to Delta1, Jagged1, or Jagged2, the 110 kDa segment undergoes two cleavages, the second which generates an NICD (notch intracellular domain) (aa 1697-2471), a potential nuclear transcription factor. In the nucleus, NICD regulates CSL pathways. When NICD is phosphorylated, it is deactivated. Over aa 2063-2413, human Notch-2 is 94% and 89% aa identical to dog and mouse Notch-2, respectively.