PE Rat Anti-Mouse Delta-Like Protein 1

Product Information

Material Number: 563684
Alternate Name: Delta like-1; Delta-like 1; Delta1; Dll1; DL1; DL-1
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: 30B11.1
Immunogen: Mouse DL1 Extracellular Domain
Isotype: Rat (LOU) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 30B11.1 monoclonal antibody specifically binds to Delta-like1 (Dll1) which is also known as Delta1 and DL1. Dll1 is a 90-100 kDa type 1 transmembrane protein. It is a member of the Delta/Serrate/Jagged Family of Notch ligands. Notch ligands are classified by the presence of specific structural motifs including an N-terminal Delta-Serrate-LAG-2 (DSL) domain, EGF repeats, and the DOS domain (a specialized EGF repeat). The Notch family of transmembrane receptors and their ligands control cell-fate "decisions" during the development of many organs in a wide variety of animal species. Dll1 is expressed in the paraxial mesoderm and in some cells in the nervous system in early development. In the adult, Dll1 is expressed in a variety of tissues including at high levels in the heart and at various levels by cells within lymphoid tissues. Although Dll1 does not normally appear to play a role in T cell development, Dll1 and Notch interactions are essential for marginal zone B cell development and reportedly promote the differentiation of antibody producing cells.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
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<tr>
<td>554655</td>
<td>Fixation Buffer</td>
<td>100 ml</td>
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<tr>
<td>553930</td>
<td>PE Rat IgG2a, κ Isotype Control</td>
<td>0.1 mg</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References