PE Rat Anti-Human CD210a

Product Information

Material Number: 556013
Alternate Name: CD210; CDW210A; IL10RA; IL-10RA; IL-10R-A; IL10R; HIL-10R; IL-10R1; IL10R1
Size: 100 Tests
Vol. per Test: 20 µl
Clone: 3F9
Immunogen: Human IL-10R alpha Recombinant Protein
Isotype: Rat (F344) IgG2a, κ
Reactivity: QC Testing: Human
Workshop: IX 30
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description
The 3F9 monoclonal antibody specifically binds to CD210a, which is also known as, Interleukin-10 Receptor subunit alpha (IL-10R subunit alpha/IL-10Rα/IL10RA), or Interleukin-10 receptor subunit 1 (IL-10R1). CD210a is a 90-110 kDa type I transmembrane glycoprotein that belongs to the type II cytokine receptor family. CD210a combines with IL-10 Receptor subunit beta (IL-10Rβ/IL10RB/CDw210b) to form the IL-10 Receptor complex (IL-10Rα/IL-10Rβ) that can bind IL-10 and transduce signals intracellularly through the JAK/STAT pathway. IL-10 can suppress antigen presentation and the expression of proinflammatory type-1 immune responses while promoting type-2 immune responses. CD210a is expressed on T cells, B cells, NK cells, monocyte, macrophages and dendritic cells. Clone 3F9 is specific for human CD210a and its binding to the receptor can be blocked by recombinant human IL-10 (rhIL-10) protein.

Flow cytometric profile of CD210a expression on human peripheral blood lymphocytes. Human whole blood was stained with either PE Rat IgG2a, κ Isotype Control (Cat. No. 555844; dashed line histogram) or PE Rat Anti-Human CD210a (Cat. No. 556013; solid line histogram). Erythrocytes were lysed with BD FACS™ Lysing Solution (Cat. No. 349202). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed on a BD FACSCan™ System.

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>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tr>
<td>555844</td>
<td>PE Rat IgG2a, κ Isotype Control</td>
<td>100 Tests</td>
<td>R35-95</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>555899</td>
<td>Lysing Buffer</td>
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<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
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Product Notices
1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References