Technical Data Sheet

PE Mouse Anti-Human CD268 (BAFF Receptor)

Product Information

Material Number: 558097
Alternate Name: BAFF Receptor; BAFF-R; BlyS receptor 3; BR3; TNFRSF13C
Size: 0.1 mg
Concentration: 0.2 mg/ml
Clone: 11C1
Immunogen: Human BAFF-R Transfected Cell Line
Isotype: Mouse (C57BL/6) IgG1, κ
Reactivity: QC Testing: Human
Workshop: VIII 80684; IX 235

Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 11C1 monoclonal antibody recognizes CD268 which is also known as the B cell activating factor receptor (BAFF-R). CD268 is a type III transmembrane protein of approximately 184 residues. BAFF-R is one of the receptors for B-cell activating factor (BAFF), a member of the TNF family of proteins. BAFF is a key regulator for B cell differentiation and critical in regulating survival and activation of peripheral B cell populations. Experiments in the mouse model show that interaction of BAFF with BAFF-R promotes NF-κB activity. Overexpression of BAFF results in an expanded B cell compartment and autoimmunity in mice. Mice injected with BAFF-neutralizing-Fc (BAFF-R-Fc) protein showed reduced NF-κB activation, blocking BAFF-induced B cell proliferation. Reports suggest that the BAFF-BAFF-R interaction may lead to a better understanding of autoimmune disorders.

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>554680</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<tr>
<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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<tr>
<td>555899</td>
<td>Lysing Buffer</td>
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</tbody>
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Flow cytometric analysis of CD268 (BAFF-R) expression on human peripheral blood lymphocytes. Whole blood was stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; dashed line histogram) or PE Mouse Anti-Human CD268 (BAFF-R) antibody (Cat. No. 558097; solid line histogram). Erythrocytes were lysed with BD FACSTM Lysing Solution (Cat. No. 349202). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact lymphocytes.
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

Thompson JS, Bider SA, Qian F, et al. BAFF-R, a newly identified TNF receptor that specifically interacts with BAFF. Science. 2001; 293(5537):2108-2111. (Biology)