Technical Data Sheet

Alexa Fluor® 647 Mouse Anti-Human CD268 (BAFF Receptor)

Product Information
Material Number: 564817
Alternate Name: BAFF Receptor; BAFF-R; BLyS receptor 3; BR3; TNFRSF13C
Size: 100 Tests
Vol. per Test: 5 µl
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 BSA and ≤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.

Flow cytometric analysis of CD268 (BAFF-R) expression on human peripheral blood lymphocytes. Whole blood was stained with either Alexa Fluor® 647 Mouse IgG1, κ Isotype Control (Cat. No. 557714; dashed line histogram) or Alexa Fluor® 647 Mouse Anti-Human CD268 (BAFF-R) antibody (Cat. No. 564817/564818; 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 intact lymphocytes. Flow cytometric analysis was performed using a BD™ LSR II Flow Cytometer 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 to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was 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>
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<td>Alexa Fluor® 647 Mouse IgG1 κ Isotype Control</td>
<td>100 Tests</td>
<td>MOPC-21</td>
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<td>Alexa Fluor® 647 Mouse Anti-Human CD268 (BAFF Receptor)</td>
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<td>11C1</td>
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<td>Stain Buffer (BSA)</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 × 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. 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. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
6. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References

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