Antibodies

Anti-Mouse CD267 (TACI)
Antibody, Clone 8F10, PE

Rat monoclonal IgG2a antibody against mouse CD267 (TACI), PE-conjugated

Catalog #60116PE
#60116PE.1

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Amount</th>
<th>Unit/mL</th>
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<tbody>
<tr>
<td>200 µg</td>
<td>0.2 mg</td>
<td>1 mL</td>
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<tr>
<td>50 µg</td>
<td>0.2 mg</td>
<td>1 mL</td>
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Product Description

The 8F10 antibody reacts with mouse CD267 (transmembrane activator and CAML interactor, or TACI), an ~30 kDa type III transmembrane protein of the TNF receptor superfamily that is expressed primarily on the surface of maturing subsets of splenic B cells, including transition type 2 (T2) and marginal zone (MZ) B cells, as well as on plasma cells and plasmablasts. Expression of CD267 is upregulated on B cells exposed to LPS both in vitro and in vivo. CD267 plays important roles in humoral immunity by regulating B cell survival, proliferation, and maturation through its interaction with the ligands APRIL and BAFF. Ligand binding stimulates activation of several transcription factors, including NF-kappa-B, and has been shown to induce either proliferation or apoptosis, suggesting a dual role in the regulation of B cells. CD267 also appears to have an essential function in immunoglobulin isotype switching and B cell differentiation in response to thymus-independent antigens.

Target Antigen Name: CD267 (TACI)
Alternative Names: TACI, TNFRSF 13B, Transmembrane activator and CAML interactor, Tumor necrosis factor receptor 13B
Gene ID: 57916
Species Reactivity: Mouse
Host Species: Rat (Wistar)
Clonality: Monoclonal
Clone: 8F10
Isotype: IgG2a, kappa
Immunogen: Extracellular domain of mouse CD267 (TACI) recombinant protein
Conjugate: PE

Applications

Verified: FC
Reported: FC
Special Applications: This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse Pan-B Cell Isolation Kit (Catalog #19844), EasySep™ Mouse B Cell Isolation Kit (Catalog #19854), and EasySep™ Mouse CD138 Positive Selection Kit (Catalog #19857).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage: Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use: For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 x 10^6 cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.
Data

(A) Flow cytometry analysis of immunized C57BL/6 mouse splenocytes labeled with Anti-Mouse CD267 (TACI) Antibody, Clone 8F10, PE and Anti-Mouse CD138 (Syndecan-1) Antibody, Clone 281-2, APC (Catalog #60035AZ).

(B) Flow cytometry analysis of immunized C57BL/6 mouse splenocytes labeled with a rat IgG2a, kappa isotype control antibody, PE and Anti-Mouse CD138 (Syndecan-1) Antibody, Clone 281-2, APC.

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

5. Ng LG et al. (2004) B cell-activating factor belonging to the TNF family (BAFF)-R is the principal BAFF receptor facilitating BAFF costimulation of circulating T and B cells. J Immunol 173(2): 807-17 (FC)