**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:** APC

**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).

**Properties**

- **Formulation:** Aqueous buffer containing 0.09% sodium azide, may contain carrier protein/stabilizer  
- **Purification:** The antibody was purified by column chromatography.  
- **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 ≤ 0.25 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, APC and Anti-Mouse CD138 (Syndecan-1) Antibody, Clone 281-2, PE (Catalog #60035PE).

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

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)

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