**DESCRIPTION**

**Species Reactivity:** Mouse

**Specificity:** Detects mouse TACI/TNFRSF13B in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) TACI or rhBCMA is observed.

**Source:** Monoclonal Rat IgG\(_{2A}\) Clone # 166010

**Purification:** Protein A or G purified from hybridoma culture supernatant

**Immunogen:** Mouse myeloma cell line NS0-derived recombinant mouse TACI/TNFRSF13B Phe5-Thr129 Accession # Q9ET35

**Conjugate:** Phycoerythrin

**Excitation Wavelength:** 488 nm

**Emission Wavelength:** 565-605 nm

**Formulation:** Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

**Recommended Concentration**

**Sample**

**Flow Cytometry**

10 \(\mu\)L/10\(^6\) cells See Below

**DATA**

![Flow Cytometry](image)

Detection of TACI/TNFRSF13B in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes were stained with Rat Anti-Mouse B220/CD45R Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB1217F) and either (A) Rat Anti-Mouse TACI/TNFRSF13B PE-conjugated Monoclonal Antibody (Catalog # FAB1041P) or (B) Rat IgG\(_{2A}\) Phycoerythrin Isotype Control (Catalog # IC006P). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

**Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**

- Protect from light. Do not freeze.
- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

TACI, Transmembrane Activator and CAML-Interactor, is a member of the TNF receptor superfamily and has been designated TNFRSF13B. TACI is a type III membrane protein with an extracellular N-terminus in the absence of a cleaved signal sequence. The extracellular region of TACI contains two cysteine-rich domains. Within the TNFRSF, it shares the highest homology with B cell Maturation Factor (BCMA). TACI and BCMA have both been shown to bind APRIL and BAFF, members of the TNF ligand superfamily. TACI is expressed on the cell surface of B cells and activated, but not resting, T cells. Analogous to BCMA, data suggests that TACI may play an important role in B cell development, function and regulation. Mature mouse TACI is a 249 amino acid (aa) protein consisting of a 129 aa extracellular domain, a 20 aa transmembrane domain, and a 100 aa intracellular domain. Mouse and human TACI share 54% aa identity.