

# Monoclonal Anti-mouse TACI/TNFRSF13B-APC

Catalog Number: FAB1041A

Lot Number: ABKC03

100 Tests

## Reagents Provided

**Allodycyanin (APC)-conjugated rat monoclonal anti-mouse TACI/TNFRSF13B:** Supplied as 10 µg of antibody in 1 mL saline containing up to 0.5% BSA and 0.1% sodium azide.

**Clone #:** 166010

**Isotype:** rat IgG<sub>2A</sub>

## Reagents Not Provided

- Flow Cytometry Staining Buffer (Catalog # FC001) or other BSA-supplemented saline buffer.

## Storage

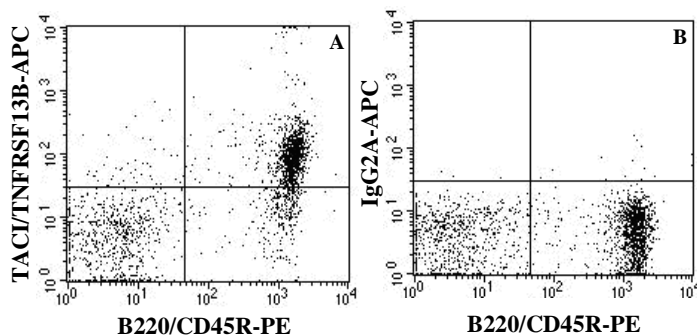
Reagents are stable for **twelve months** from the date of receipt when stored in the dark at 2° - 8° C.

## Intended Use

Designed to quantitatively determine the percentage of cells bearing TACI/TNFRSF13B within a population and qualitatively determine the density of TACI/TNFRSF13B on cell surfaces by flow cytometry.

## Product Description

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse TACI (rmTACI; aa 1 - 129; Accession # Q9ET35) extracellular domain. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. The purified antibody was then conjugated to APC fluorochrome. Cell surface expression of TACI/TNFRSF13B is determined by flow cytometry using 620 - 650 nm wavelength excitation and monitoring emitted fluorescence with a detector optimized to collect peak emissions at 660 - 670 nm.



Mouse splenocytes were stained with either A) APC-conjugated anti-mouse TACI/TNFRSF13B (Catalog # FAB1041A) or B) APC-conjugated isotype control (Catalog # IC006A) and PE-conjugated anti-mouse B220/CD45R (Catalog# FAB1217P).

## Background Information

Transmembrane Activator and CAML Interactor (TACI) is a tumor necrosis factor receptor superfamily member and has been designated TNFRSF13B. It is expressed on B cells and activated T cells, and acts as a receptor for APRIL and BAFF. TACI was reported to play an important role in B cell development and function.

## Flow Cytometry Validation

This antibody has been tested for flow cytometry using mouse splenocytes.

- Cells may be Fc-blocked with 1 µg of mouse IgG/10<sup>5</sup> cells for 15 minutes at room temperature. Do not wash excess blocking IgG from this reaction.
- After blocking, 10 µL of conjugated antibody was added to up to 1 x 10<sup>6</sup> cells and incubated for 30 minutes at room temperature.
- Unbound antibody was removed by washing the cells twice in Flow Cytometry Staining Buffer (Catalog # FC001). Note that whole blood requires a RBC lysis step at this point using Flow Cytometry Mouse Lyse Buffer (Catalog # FC003).
- The cells were resuspended in Flow Cytometry Staining Buffer for final flow cytometric analysis. As a control for this analysis, cells in a separate tube should be treated with APC-labeled rat IgG<sub>2A</sub> antibody. This procedure may need to be modified, depending upon the cell type and final utilization. Individual users may need to titrate to determine the optimal reagent amount for their specific use.

**Warning:** Contains sodium azide as a preservative - sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large volumes of water during disposal.