

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	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL 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	0.25-1 µg/10 ⁶ cells	Mouse splenocytes

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. <ul style="list-style-type: none"> 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. 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.

References:

- Xia, X.Z. *et al.* (2000) *J. Exp. Med.* **192**:137.
- von Bulow, G.U. *et al.* (1997) *Science* **278**:138.
- Gross, J.A. *et al.* (2000) *Nature* **404**:995.
- Marsters, S.A. *et al.* (2000) *Curr. Biol.* **10**:785.
- Yan, M. *et al.* (2000) *Nature Immunol.* **1**:37.
- Wu, Y. *et al.* (2000) *J. Biol. Chem.* **275**:35478.

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