

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TACI/TNFRSF13B in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human TACI is observed and less than 1% cross-reactivity with recombinant mouse BCMA/TNFRSF17 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse TACI/TNFRSF13B Phe5-Thr129 Accession # Q9ET35
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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
Western Blot	0.1 µg/mL	Recombinant Mouse TACI/TNFRSF13B Fc Chimera (Catalog # 1041-TC)
Flow Cytometry	2.5 µg/10 ⁶ cells	Mouse splenocytes
Immunohistochemistry	5-15 µg/mL	Perfusion fixed frozen sections of mouse small intestine (Peyer's patch) and thymus
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.25-1 µg/mL of this antibody will block 50% of the binding of 100 ng/mL of Recombinant Mouse BAFF/BLyS/TNFRSF13B (Catalog # 2106-BF) to immobilized Recombinant Mouse TACI/TNFRSF13B Fc Chimera (Catalog # 1041-TC) coated at 1 µg/mL (100 µL/well). At 15 µg/mL, this antibody will block >90% of the binding.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.