

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TACI/TNFRSF13B in ELISAs and Western blots. In sandwich ELISAs, less than 0.1% cross-reactivity with recombinant human TACI and recombinant mouse BCMA 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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

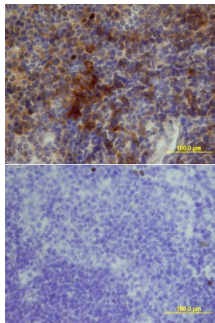
APPLICATIONS

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)
Immunohistochemistry	5-15 µg/mL	See Below
Mouse TACI/TNFRSF13B Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Mouse TACI/TNFRSF13B Antibody (Catalog # MAB1041)
ELISA Detection Standard	0.1-0.4 µg/mL	Mouse TACI/TNFRSF13B Biotinylated Antibody (Catalog # BAF1041) Recombinant Mouse TACI/TNFRSF13B Fc Chimera (Catalog # 1041-TC)

DATA

Immunohistochemistry



TACI/TNFRSF13B in Mouse Thymus. TACI/TNFRSF13B was detected in perfusion fixed frozen sections of mouse thymus using Goat Anti-Mouse TACI/TNFRSF13B Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF1041) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Lower panel shows a lack of labeling if primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

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

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3. Gross, J.A. *et al.* (2000) *Nature* **404**:995.
4. Marsters, S.A. *et al.* (2000) *Curr. Biol.* **10**:785.
5. Yan, M. *et al.* (2000) *Nature Immunol.* **1**:37.
6. Wu, Y. *et al.* (2000) *J. Biol. Chem.* **275**:35478.