

DESCRIPTION

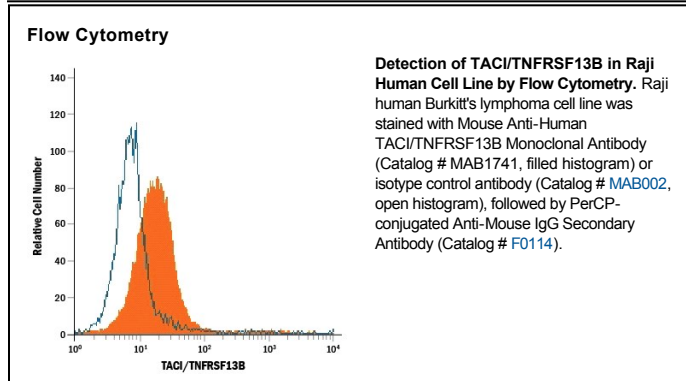
Species Reactivity	Human
Specificity	Detects human TACI/TNFRSF13B in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human BCMA or recombinant mouse TACI is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 165604
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TACI/TNFRSF13B Ser2-Thr166 Accession # O14836
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. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Blockade of Receptor-ligand Interaction	In a functional ELISA, 0.05-0.2 µg/mL of this antibody will block 50% of the binding of 50 ng/mL of Recombinant Human BAFF/BLYS/TNFSF13B (Catalog # 2149-BF) to immobilized Recombinant Human TACI/TNFRSF13B Fc Chimera (Catalog # 174-TC) coated at 1 µg/mL (100 µL/well). At 10 µg/mL, this antibody will block >90% of the binding.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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. 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 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. Human TACI is a 293 amino acid (aa) protein consisting of a 166 aa extracellular domain, a 20 aa transmembrane domain, and a 107 aa intracellular domain. Human and mouse TACI share 54% amino acid 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.