

Datasheet for ABIN1672883

## TACI ELISA Kit



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### Overview

Quantity:	96 tests
Target:	TACI (TNFRSF13B)
Binding Specificity:	AA 2-166
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	93.7-6000 pg/mL
Minimum Detection Limit:	93.7 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TNFRSF13B/TACI
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S2-T166
Specificity:	Expression system for standard: NSO Immunogen sequence: S2-T166
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

Target:	TACI (TNFRSF13B)
Alternative Name:	TNFRSF13B ( <a href="#">TNFRSF13B Products</a> )
Background:	<p>Protein Function: Receptor for TNFSF13/APRIL and TNFSF13B/TALL1/BAFF/BLYS that binds both ligands with similar high affinity. Mediates calcineurin-dependent activation of NF-AT, as well as activation of NF-kappa-B and AP-1. Involved in the stimulation of B- and T- cell function and the regulation of humoral immunity. .</p> <p>Background: Tumor necrosis factor receptor superfamily member 13B, also known as TNFRSF13B or more commonly as TACI, is a transmembrane receptor protein found predominantly on the surface of B cells, which are an important part of the immune system. TACI controls T cell-independent B cell antibody responses, isotype switching, and B cell homeostasis. TACI is a lymphocyte-specific member of the tumor necrosis factor(TNF) receptor superfamily. It was originally discovered because of its ability to interact with calcium-modulator and cyclophilin ligand(CAML). TACI was later found to play a crucial role in humoral immunity by interacting with two members of the TNF family: BAFF and APRIL. These proteins signal through TACI inducing activation of several transcription factors including NFAT, AP-1, and NF-kappa-B which then modulate cellular activities. Defects in the function of TACI can lead to immune system diseases.</p> <p>Synonyms: Tumor necrosis factor receptor superfamily member 13B,Transmembrane activator and CAML interactor,CD267,TNFRSF13B,TACI,</p> <p>Full Gene Name: Tumor necrosis factor receptor superfamily member 13B</p> <p>Cellular Localisation: Membrane, Single-pass type III membrane protein.</p>
Gene ID:	23495
UniProt:	<a href="#">014836</a>

## Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
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## Application Details

	assay was recommended for both standard and sample testing.
Comment:	<p>Sequence similarities: Contains 2 TNFR-Cys repeats.</p> <p>Tissue Specificity: Highly expressed in spleen, thymus, small intestine and peripheral blood leukocytes. Expressed in resting B- cells and activated T-cells, but not in resting T-cells.</p>
Plate:	Pre-coated
Protocol:	human TNFRSF13B ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFRSF13B has been precoated onto 96-well plates. Standards(NSO, S2-T166) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF13B is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human TNFRSF13B amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/mL human TNFRSF13B standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TNFRSF13B standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(pg/ml): 527, Standard deviation: 19, CV(%): 3.6</li><li>• Sample 2: n=16, Mean(pg/ml): 2085, Standard deviation: 91.74, CV(%): 4.4</li><li>• Sample 3: n=16, Mean(pg/ml): 3561, Standard deviation: 185.2, CV(%): 5.2,</li><li>• Sample 1: n=24, Mean(pg/ml): 686, Standard deviation: 31.6, CV(%): 4.6</li><li>• Sample 2: n=24, Mean(pg/ml): 2664, Standard deviation: 151.8, CV(%): 5.7</li><li>• Sample 3: n=24, Mean(pg/ml): 3724, Standard deviation: 242.1, CV(%): 6.5</li></ul>
Restrictions:	For Research Use only
<h2>Handling</h2>	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C, 4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

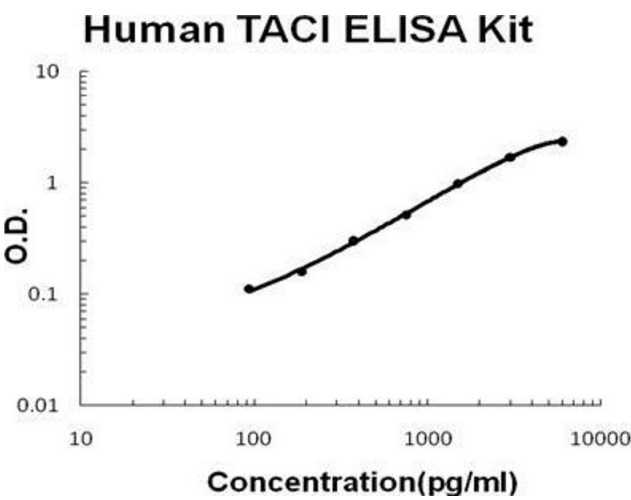
Handling

Expiry Date: 12 months

Publications

Product cited in: Xu, Feng, Wang, Zhu, Lin, Lou, Xiang, He, Zheng, Tang, Zuo: "Phytoestrogen calycosin-7-O- $\beta$ -D-glucopyranoside ameliorates advanced glycation end products-induced HUVEC damage." in: **Journal of cellular biochemistry**, Vol. 112, Issue 10, pp. 2953-65, (2011) ([PubMed](#)).

Images



ELISA

**Image 1.** Human TNFRSF13B/TACI PicoKine ELISA Kit standard curve