

Datasheet for ABIN1672795  
**TNFRSF18 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	TNFRSF18
Binding Specificity:	AA 26-161
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TNFRSF18/GITR
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: Q26-E161
Specificity:	Expression system for standard: NSO Immunogen sequence: Q26-E161
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:	TNFRSF18
Alternative Name:	TNFRSF18 ( <a href="#">TNFRSF18 Products</a> )
Background:	<p>Protein Function: Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.</p> <p>Background: Tumor necrosis factor receptor superfamily member 18(TNFRSF18), also called GITR or AITR is a protein that in humans is encoded by the TNFRSF18 gene. This gene is mapped to 1p36.33. This gene encodes a member of the TNF-receptor superfamily. The encoded receptor has been shown to have increased expression upon T-cell activation, and it is thought to play a key role in dominant immunological self-tolerance maintained by CD25(+)CD4(+) regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T-cell activation and programmed cell death. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.</p> <p>Synonyms: Tumor necrosis factor receptor superfamily member 18,Activation-inducible TNFR family receptor,Glucocorticoid-induced TNFR-related protein,CD357,TNFRSF18,AITR, GITR,UNQ319/PRO364,</p> <p>Full Gene Name: Tumor necrosis factor receptor superfamily member 18</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	8784
UniProt:	<a href="#">Q9Y5U5</a>
Pathways:	<a href="#">Cancer Immune Checkpoints</a>

## Application Details

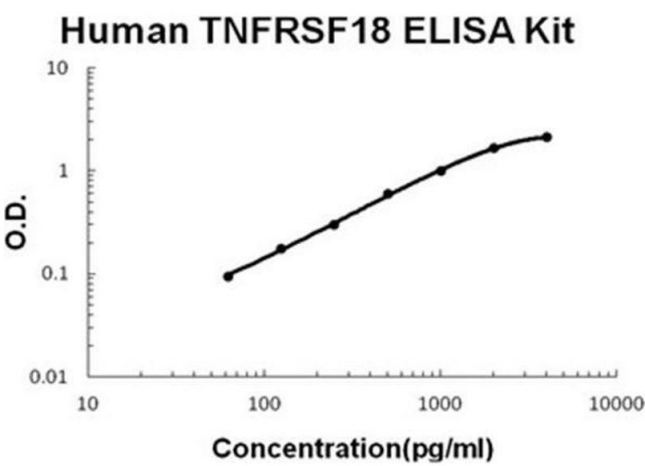
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
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## Application Details

Comment:	Tissue Specificity: Expressed in lymph node, peripheral blood leukocytes and weakly in spleen.
Plate:	Pre-coated
Protocol:	human TNFRSF18 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFRSF18 has been precoated onto 96-well plates. Standards(NSO, Q26-E161) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF18 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 TNFRSF18 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL human TNFRSF18 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 TNFRSF18 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): 342, Standard deviation: 11.97, CV(%): 3.5</li><li>• Sample 2: n=16, Mean(pg/ml): 1565, Standard deviation: 62.6, CV(%): 4</li><li>• Sample 3: n=16, Mean(pg/ml): 3014, Standard deviation: 153.7, CV(%): 5.1,</li><li>• Sample 1: n=24, Mean(pg/ml): 540, Standard deviation: 30.24, CV(%): 5.6</li><li>• Sample 2: n=24, Mean(pg/ml): 1896, Standard deviation: 110, CV(%): 5.8</li><li>• Sample 3: n=24, Mean(pg/ml): 3242, Standard deviation: 217.2, CV(%): 6.7</li></ul>
Restrictions:	For Research Use only

## Handling

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
Expiry Date:	12 months



**ELISA**

**Image 1.** Human TNFRSF18/GITR PicoKine ELISA Kit standard curve