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## Datasheet for ABIN1672796 TNFRSF18 ELISA Kit

1 Image

1 Publication



#### Overview

Quantity:	96 tests
Target:	TNFRSF18
Binding Specificity:	AA 22-153
Reactivity:	Mouse
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 Mouse 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: S22-H153
Specificity:	Expression system for standard: NSO
	Immunogen sequence: S22-H153
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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#### 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 (TNFRSF18 Products)
Background:	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 (By similarity)
	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.
	Synonyms: Tumor necrosis factor receptor superfamily member 18,Glucocorticoid-induced
	TNFR-related protein,CD357,Tnfrsf18,Gitr,
	Full Gene Name: Tumor necrosis factor receptor superfamily member 18
	Cellular Localisation: Isoform A: Cell membrane, Single-pass type I membrane protein.
Gene ID:	21936
UniProt:	035714
Pathways:	Cancer Immune Checkpoints
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.
	assay was recommended for both standard and sample testing.

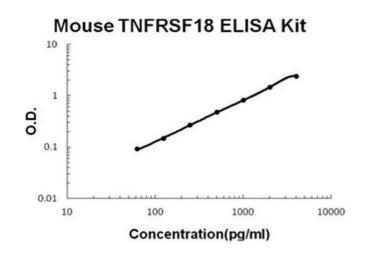
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Comment:	Tissue Specificity: Preferentially expressed in activated T lymphocytes.
Plate:	Pre-coated
Protocol:	mouse TNFRSF18 ELISA Kit was based on standard sandwich enzyme-linked immune-sorben
	assay technology. A monoclonal antibody from rat specific for TNFRSF18 has been precoated
	onto 96-well plates. Standards(NSO, S22-H153) 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. HRF
	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 mouse 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 mouse 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each mouse TNFRSF18 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(pg/ml): 228, Standard deviation: 10.5, CV(%): 4.6</li> </ul>
	• Sample 2: n=16, Mean(pg/ml): 1805, Standard deviation: 97.47, CV(%): 5.4
	<ul> <li>Sample 3: n=16, Mean(pg/ml): 3208, Standard deviation: 96.24, CV(%): 3,</li> </ul>
	<ul> <li>Sample 1: n=24, Mean(pg/ml): 324, Standard deviation: 17.82, CV(%): 5.5</li> </ul>
	<ul> <li>Sample 2: n=24, Mean(pg/ml): 2125, Standard deviation: 144.5, CV(%): 6.8</li> <li>Sample 3: n=24, Mean(pg/ml): 3154, Standard deviation: 220.8, CV(%): 7</li> </ul>
	• Sample S. II–24, Mean(pg/TII). 5154, Standard deviation. 220.8, CV(%). 7
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
Publications	
Product cited in:	Liu, Zhu, Zhou, Wei, Long, Chen, Ling, Ge, Zhuo: "Endoplasmic reticulum stress promotes

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Peng, Dai, Ji, Dai: "The separate roles of endothelin receptors participate in remodeling of matrix metalloproteinase and connexin 43 of cardiac fibroblasts in maladaptive response to isoproterenol." in: **European journal of pharmacology**, Vol. 634, Issue 1-3, pp. 101-6, (2010) (PubMed).

Images



#### ELISA

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