

## Datasheet for ABIN1672775 CD27 ELISA Kit

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### 1 Image

#### Overview

Quantity:	96 tests
Target:	CD27
Binding Specificity:	AA 21-182
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 TNFRSF7/CD27
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: T21-R182
Specificity:	Expression system for standard: NSO Immunogen sequence: T21-R182
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:	CD27
Alternative Name:	CD27 ( <a href="#">CD27 Products</a> )
Background:	<p>Protein Function: Receptor for CD70/CD27L. May play a role in survival of activated T-cells. May play a role in apoptosis through association with SIVA1.</p> <p>Background: CD27 antigen, also called CD27 or TNFRSF7 is a tumor necrosis factor receptor. This gene is mapped to 12p13.31. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein(SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor.</p> <p>Synonyms: CD27 antigen,CD27L receptor,T-cell activation antigen CD27,Tumor necrosis factor receptor superfamily member 7,CD27,Cd27,Tnfrsf7,</p> <p>Full Gene Name: CD27 antigen</p> <p>Cellular Localisation: Membrane, Single-pass type I membrane protein.</p>
Gene ID:	21940
UniProt:	<a href="#">P41272</a>
Pathways:	<a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Cancer Immune Checkpoints</a>

## Application Details

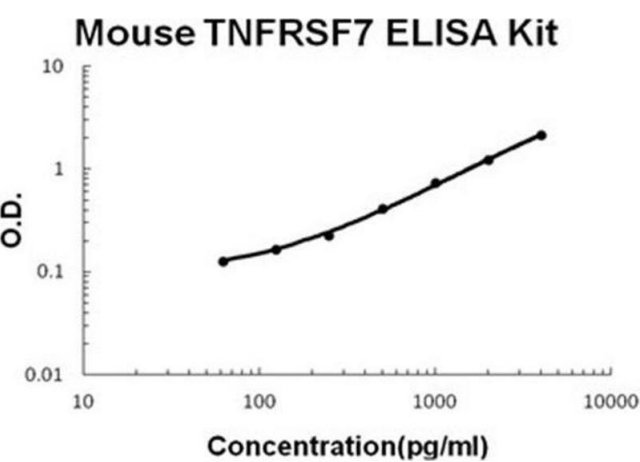
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: In thymus and spleen, but not in non-lymphoid tissues.

## Application Details

Plate:	Pre-coated
Protocol:	mouse TNFRSF7 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TNFRSF7 has been precoated onto 96-well plates. Standards(NSO, T21-R182) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF7 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 mouse TNFRSF7 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 TNFRSF7 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 and serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse TNFRSF7 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): 533, Standard deviation: 22.4, CV(%): 4.2</li><li>• Sample 2: n=16, Mean(pg/ml): 1626, Standard deviation: 56.91, CV(%): 3.5</li><li>• Sample 3: n=16, Mean(pg/ml): 2563, Standard deviation: 138.4, CV(%): 5.4,</li><li>• Sample 1: n=24, Mean(pg/ml): 658, Standard deviation: 39.5, CV(%): 6</li><li>• Sample 2: n=24, Mean(pg/ml): 1856, Standard deviation: 89.1, CV(%): 4.8</li><li>• Sample 3: n=24, Mean(pg/ml): 2731, Standard deviation: 180.3, CV(%): 6.6</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.** Mouse TNFRSF7/CD27 PicoKine ELISA Kit standard curve