

Datasheet for ABIN2859281

TNFRSF8 ELISA Kit



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Overview

Quantity:	96 tests
Target:	TNFRSF8
Binding Specificity:	AA 19-379
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD30/TNFRSF8
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: F19-K379
Specificity:	NSO, F19-K379
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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
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Target Details

Target:	TNFRSF8
Alternative Name:	TNFRSF8 (TNFRSF8 Products)
Background:	<p>Protein Function: Receptor for TNFSF8/CD30L. May play a role in the regulation of cellular growth and transformation of activated lymphoblasts. Regulates gene expression through activation of NF- kappa-B.</p> <p>Background: CD30, also known as TNFRSF8, is a cell membrane protein of the tumor necrosis factor receptor family and tumor marker. This receptor is a positive regulator of apoptosis, and also has been shown to limit the proliferative potential of autoreactive CD8 effector T cells and protect the body against autoimmunity. This gene is mapped to 1p36.22. CD30 is expressed in embryonal carcinoma but not in seminoma and is thus a useful marker in distinguishing between these germ cell tumors. CD30 mast cell activation represents an IgE-independent activation pathway, which is important for understanding cutaneous inflammation associated with mast cells. In addition to those, CD30 is also associated with anaplastic large cell lymphoma.</p> <p>Synonyms: Tumor necrosis factor receptor superfamily member 8,CD30L receptor,Ki-1 antigen,Lymphocyte activation antigen CD30,CD30,TNFRSF8,CD30, D1S166E,</p> <p>Full Gene Name: Tumor necrosis factor receptor superfamily member 8</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	943
UniProt:	P28908

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:	Sequence similarities: Contains 6 TNFR-Cys repeats.
Plate:	Pre-coated

Application Details

Protocol: human CD30 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD30 has been precoated onto 96-well plates. Standards(NSO, F19-K379) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD30 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 CD30 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL human CD30 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 CD30 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 0.48, Standard deviation: 0.02, CV(%): 3.3
- Sample 2: n=16, Mean(ng/ml): 1.3, Standard deviation: 0.06, CV(%): 4.5
- Sample 3: n=16, Mean(ng/ml): 5.2, Standard deviation: 0.29, CV(%): 5.6,
- Sample 1: n=24, Mean(ng/ml): 0.52, Standard deviation: 0.03, CV(%): 4.9
- Sample 2: n=24, Mean(ng/ml): 2.4, Standard deviation: 0.14, CV(%): 5.8
- Sample 3: n=24, Mean(ng/ml): 6.3, Standard deviation: 0.4, CV(%): 6.2

Restrictions: For Research Use only

Handling

Handling Advice: Avoid multiple freeze-thaw cycles.

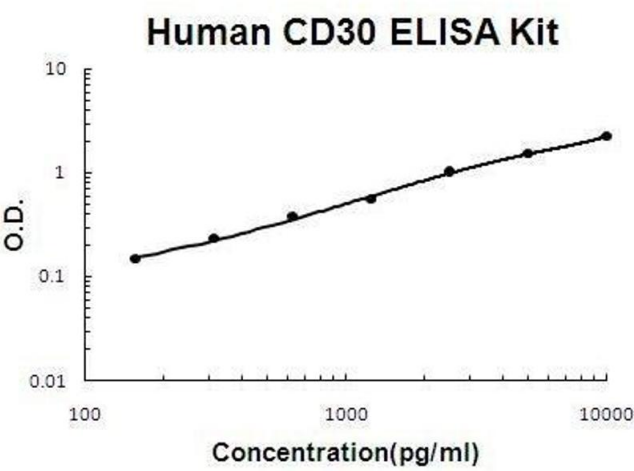
Storage: -20 °C, 4 °C

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: Huang, Lv, Liu, Ye, Yang, Li, Zhu, Wang, Cui, Jiang, Hao, Xu, Jin, Qian: "A SIRPα-Fc fusion protein enhances the antitumor effect of oncolytic adenovirus against ovarian cancer." in: **Molecular oncology**, Vol. 14, Issue 3, pp. 657-668, (2021) ([PubMed](#)).



ELISA

Image 1. Human CD30/TNFRSF8 PicoKine ELISA Kit standard curve