

Datasheet for ABIN2859256
TDGF1 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	TDGF1
Binding Specificity:	AA 26-150
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 Cripto/TDGF1
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: R26-Q150
Specificity:	NSO, R26-Q150
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:	TDGF1
Alternative Name:	TDGF1 (TDGF1 Products)
Background:	<p>Protein Function: Could play a role in the determination of the epiblastic cells that subsequently give rise to the mesoderm.</p> <p>Background: Teratocarcinoma-derived growth factor 1 is a protein that in humans is encoded by the TDGF1 gene. It is mapped to 3p23-p21. The protein is an extracellular, membrane-bound signaling protein that plays an essential role in embryonic development and tumor growth. Mutations in this gene are associated with forebrain defects. Pseudogenes of this gene are found on chromosomes 2, 3, 6, 8, 19 and X. Alternate splicing results in multiple transcript variants.</p> <p>Synonyms: Teratocarcinoma-derived growth factor, Cripto growth factor, Epidermal growth factor-like Cripto protein, Tdgf1, Cripto,</p> <p>Full Gene Name: Teratocarcinoma-derived growth factor</p> <p>Cellular Localisation: Cell membrane, Lipid-anchor, GPI-anchor.</p>
Gene ID:	21667
UniProt:	P51865
Pathways:	EGFR Signaling Pathway

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: Expressed at low level in specific organs of the adult animal such as spleen, heart, lung and brain. During gastrulation, expressed in the forming mesoderm. In later stages of the developing heart, expression is restricted to the truncus arteriosus.
Plate:	Pre-coated
Protocol:	mouse Cripto ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

assay technology. A monoclonal antibody from rat specific for Cripto has been precoated onto 96-well plates. Standards (NSO, R26-Q150) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cripto 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 Cripto 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 Cripto 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. We recommend that each mouse Cripto standard solution and each sample is measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 675, Standard deviation: 34.42, CV(%): 5.1
- Sample 2: n=16, Mean(pg/ml): 1810, Standard deviation: 108.6, CV(%): 6.0
- Sample 3: n=16, Mean(pg/ml): 2944, Standard deviation: 197.24, CV(%): 6.7,
- Sample 1: n=24, Mean(pg/ml): 792, Standard deviation: 43.56, CV(%): 5.5
- Sample 2: n=24, Mean(pg/ml): 1948, Standard deviation: 140.25, CV(%): 7.2
- Sample 3: n=24, Mean(pg/ml): 3107, Standard deviation: 211.27, CV(%): 6.8

Restrictions: For Research Use only

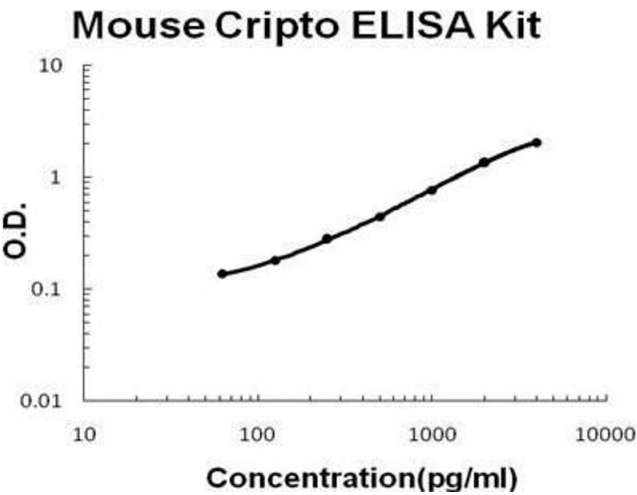
Handling

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 Cripto/TDGF1 PicoKine ELISA Kit standard curve