

Datasheet for ABIN411388 Thrombospondin 2 ELISA Kit

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1 Image

Overview

Quantity:	96 tests
Target:	Thrombospondin 2 (THBS2)
Binding Specificity:	AA 19-1172
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 TSP2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Milk
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: G19-I1172
Specificity:	Expression system for standard: NSO,G19-I1172
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:	Thrombospondin 2 (THBS2)
Alternative Name:	THBS2 (THBS2 Products)
Background:	<p>Protein Function: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Ligand for CD36 mediating antiangiogenic properties. .</p> <p>Background: Thrombospondin-2(TSP-2) is a protein that in humans is encoded by the THBS2 gene.And this gene is mapped to 6q27. The protein encoded by this gene belongs to the thrombospondin family. It is a disulfide-linked homotrimeric glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein has been shown to function as a potent inhibitor of tumor growth and angiogenesis. Studies of the mouse counterpart suggest that this protein may modulate the cell surface properties of mesenchymal cells and be involved in cell adhesion and migration. TSP-2 has been shown to interact with MMP2.</p> <p>Synonyms: Thrombospondin-2,THBS2,TSP2,</p> <p>Full Gene Name: Thrombospondin-2</p>
Gene ID:	7058
UniProt:	P35442

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:	<p>Sequence similarities: Belongs to the thrombospondin family.</p> <p>Tissue Specificity: High expression in intervertebral disk tissue. .</p>
Plate:	Pre-coated
Protocol:	human TSP2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TSP2 has been precoated onto 96-well plates. Standards (NS0,G19-I1172) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TSP2 is added subsequently and then

Application Details

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 TSP2 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, 312pg/mL, 156pg/mL human TSP2 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, plasma(heparin, EDTA) or human milk to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TSP2 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 0.56, Standard deviation: 0.04, CV(%): 7.1
- Sample 2: n=16, Mean(ng/ml): 1.29, Standard deviation: 0.08, CV(%): 6.2
- Sample 3: n=16, Mean(ng/ml): 5.84, Standard deviation: 0.32, CV(%): 5.5,
- Sample 1: n=24, Mean(ng/ml): 0.62, Standard deviation: 0.05, CV(%): 8.1
- Sample 2: n=24, Mean(ng/ml): 1.36, Standard deviation: 0.1, CV(%): 7.4
- Sample 3: n=24, Mean(ng/ml): 6.47, Standard deviation: 0.42, CV(%): 6.5

Restrictions: For Research Use only

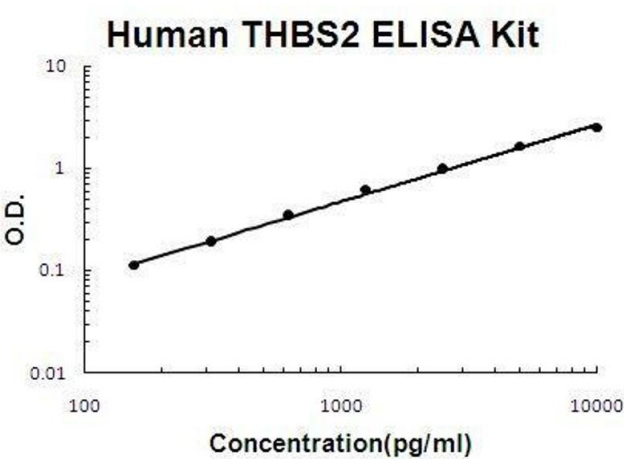
Handling

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 TSP2 PicoKine ELISA Kit standard curve