

Datasheet for ABIN2859307
ADAMTS13 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	ADAMTS13
Binding Specificity:	AA 34-688
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ADAMTS13
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: CHO Immunogen sequence: Q34-W688
Specificity:	CHO, Q34-W688
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<20pg/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:	ADAMTS13
Alternative Name:	ADAMTS13 (ADAMTS13 Products)
Background:	<p>Protein Function: Cleaves the vWF multimers in plasma into smaller forms thereby controlling vWF-mediated platelet thrombus formation. .</p> <p>Background: ADAMTS13 is a zinc-containing metalloprotease enzyme. The ADAMTS13 gene is mapped to chromosome 9q34 by genomic sequence analysis. It is reported that a metal-containing proteolytic enzyme (metalloprotease) in normal plasma cleaves the peptide bond between tyrosine at position 842 and methionine at position 843 in monomeric subunits of von Willebrand factor, thereby degrading the large multimers. And it is confirmed that the ADAMTS13 gene encodes the von Willebrand factor-cleaving protease (VWFCP). ADAMTS13 is secreted in blood and degrades large vWf multimers, decreasing their activity.</p> <p>Synonyms: A disintegrin and metalloproteinase with thrombospondin motifs 13,ADAM-TS13,ADAM-TS13,ADAMTS-13,3.4.24.87,von Willebrand factor-cleaving protease,vWF-CP,vWF-cleaving protease,ADAMTS13,C9orf8,UNQ6102/PRO20085,</p> <p>Full Gene Name: A disintegrin and metalloproteinase with thrombospondin motifs 13</p> <p>Cellular Localisation: Secreted . Secretion enhanced by O-fucosylation of TSP type-1 repeats.</p>
Gene ID:	11093
UniProt:	Q76LX8

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: Plasma. Expressed primarily in liver. .
Plate:	Pre-coated
Protocol:	human ADAMTS13 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ADAMTS13 has been

Application Details

precoated onto 96-well plates. Standards(CHO, Q34-W688) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ADAMTS13 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 ADAMTS13 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL, 1.56 ng/mL, 0.78 ng/mL human ADAMTS13 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, citrate) to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human ADAMTS13 standard solution and each sample is measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 5.62, Standard deviation: 0.259, CV(%): 4.6
- Sample 2: n=16, Mean(ng/ml): 10.1, Standard deviation: 0.444, CV(%): 4.4
- Sample 3: n=16, Mean(ng/ml): 25.5, Standard deviation: 1.07, CV(%): 4.2,
- Sample 1: n=24, Mean(ng/ml): 6.23, Standard deviation: 0.467, CV(%): 7.5
- Sample 2: n=24, Mean(ng/ml): 12.1, Standard deviation: 0.835, CV(%): 6.9
- Sample 3: n=24, Mean(ng/ml): 26.4, Standard deviation: 1.95, CV(%): 7.4

Restrictions: For Research Use only

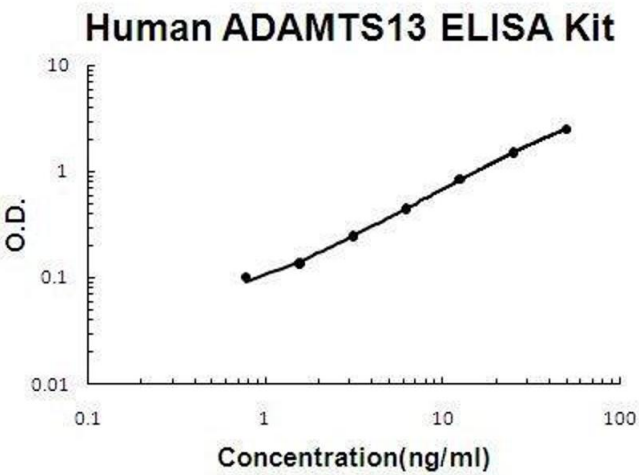
Handling

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 ADAMTS13 PicoKine ELISA Kit standard curve