

## Human ADAMTS13 PicoKine ELISA Kit | ADAMTS13 elisa kit

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CATALOG #  
**AAA46159**

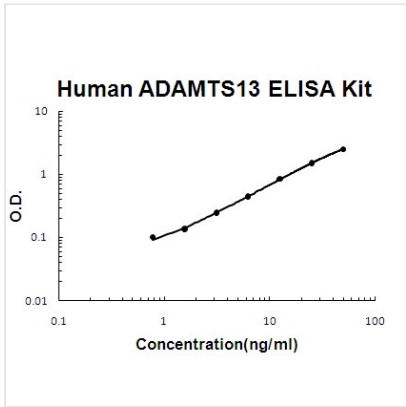
REACTIVITY  
**Human**

### PRODUCT SYNONYMS

ADAMTS13 PicoKine; Human ADAMTS13 PicoKine ELISA Kit; A disintegrin and metalloproteinase with thrombospondin motifs 13; A disintegrin like and metalloprotease (reprolysin type) with thrombospondin type 1 motif 13; A disintegrin like and metalloprotease with thrombospondin type 1 motif 13; A disintegrin-like and metalloprotease (Reprolysin type) with thrombospondin type 1 motif 13; ADAM metalloproteinase with thrombospondin type 1 motif 13; ADAM TS; ADAM-TS 13; ADAM-TS13; ADAMTS 13; ADAMTS-13; ADAMTS13; ADAMTS13 protein; ATS13\_HUMAN; C9orf8; EC 3.4.24.-; TTP; Von Willebrand factor cleaving protease; von Willebrand factor-cleaving protease; vWF cleaving protease; vWF CP; vWF-cleaving protease; vWF-CP; vWF-CP ; ADAM metalloproteinase with thrombospondin type 1 motif; 13; ADAMTS13 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity             | Natural and recombinant human ADAMTS13                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence Length         | 1427                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Assay Range             | 0.78ng/ml-50ng/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sensitivity             | <20pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sample                  | For quantitative detection of human ADAMTS13 in cell culture supernates, serum and plasma(heparin, EDTA, citrate).                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen               | CHO, Q34-W688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Assay Procedure Step 1  | Aliquot 0.1ml per well of the 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml, 0.78ng/ml human ADAMTS13 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. We recommend that each human ADAMTS13 standard solution and each sample is measured in duplicate. |
| Intra-Assay Precision   | Inter-Assay Precision<br>Sample 1 2 3 1 2 3<br>n 16 16 16 24 24 24<br>Mean(ng/ml) 5.62 10.1 25.5 6.23 12.1 26.4<br>Standard deviation 0.259 0.444 1.07 0.467 0.835 1.95<br>CV(%) 4.6 4.4 4.2 7.5 6.9 7.4                                                                                                                                                                                                                                                                                      |
| Sample Data             | Concentration(ng/ml) 0 0.78 1.56 3.12 6.25 12.5 25 50<br>O.D. 0.051 0.101 0.134 0.243 0.439 0.829 1.482 2.472                                                                                                                                                                                                                                                                                                                                                                                 |
| Anticoagulant           | Heparin, EDTA or Citrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                           |



Standard Curve (Sample)  
Human ADAMTS13 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Related Product Information for ADAMTS13 elisa kit</b> | <p>Principle of the assay: 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 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.</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> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21265034                                                                                  |
| NCBI GeneID                      | 11093                                                                                     |
| NCBI Accession #                 | NP_620594.1                                                                               |
| NCBI GenBank Nucleotide #        | NM_139025.4                                                                               |
| UniProt Accession #              | Q76LX8; Q6UY16; Q710F6; Q711T8; Q96L37; Q9H0G3; Q9UGQ1                                    |
| Molecular Weight                 | 39,864 Da                                                                                 |
| NCBI Official Full Name          | A disintegrin and metalloproteinase with thrombospondin motifs 13 isoform 1 preproprotein |
| NCBI Official Synonym Full Names | ADAM metallopeptidase with thrombospondin type 1 motif 13                                 |
| NCBI Official Symbol             | ADAMTS13                                                                                  |
| NCBI Official Synonym Symbols    | VWFCP; C9orf8; vWF-CP; ADAM-TS13; ADAMTS-13                                               |
| NCBI Protein Information         | A disintegrin and metalloproteinase with thrombospondin motifs 13                         |
| UniProt Protein Name             | A disintegrin and metalloproteinase with thrombospondin motifs 13                         |
| UniProt Gene Name                | ADAMTS13                                                                                  |

|                            |                                                                         |
|----------------------------|-------------------------------------------------------------------------|
| UniProt Synonym Gene Names | C9orf8; ADAM-TS 13; ADAM-TS13; ADAMTS-13; vWF-CP; vWF-cleaving protease |
| UniProt Entry Name         | ATS13_HUMAN                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/adamts13-picokine/46159>