

Mouse Von Willebrand Factor Cleaving Protease (ADAMTS13) ELISA Kit

Catlog Number: PAK-HMM-0047

• Description

Vascular hemophilia factor cleavage protease, also known as ADAMTS13 (a disintegrin and metalloproteinase with a thrombospondin type 1 motif, member 13), is a zinc-containing metalloproteinase that cleaves von Willebrand factor (vWf), a large protein involved in blood clotting. It is secreted into the bloodstream and degrades large vWf multimers, reducing their activity. The ADAMTS13 gene maps to chromosome 9 (9q34). Genomically, ADAMTS13 shares many characteristics with the 19 members of the ADAMTS family, all of which have a protease structural domain (the part that performs the hydrolysis of proteins), an adjacent catabolic protein structural domain, and one or more thrombin structural domains. ADAMTS13 actually has eight thromboxane structural domains. It has no hydrophobic transmembrane structural domains, so it is not anchored to the cell membrane.



• Basic Information

Test Species: Mouse

Synonyms: ADAMTS13; TTP; vWF-cp; vWF-cleaving protease; A Disintegrin And Metalloproteinase With A Thrombospondin Type 1 Motif Member 13

Sample Type: Serum, plasma, tissue homogenates and other biological fluids.

Detection Methods: Sandwich ELISA

Sensitivity: 15.2 pg/mL

Detection Range: 31.2-2000 pg/mL

Accuracy: The intraplate coefficient of variation is less than 10% and the interplate coefficient of variation is less than 10%.

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● Detection Principle

The kit is based on double antibody sandwich enzyme-linked immunosorbent assay (ELISA). To the microtiter wells pre-coated with mouse metallopeptidase-containing platelet reactive protein 13 (ADAMTS13) capture antibody, the sample, standard, biotin-labeled detection antibody and HRP enzyme conjugate are added sequentially, followed by incubation and washing, and then the color is developed with the substrate TMB, which is converted into blue color catalyzed by the enzyme peroxidase (HRP), and then converted into yellow color under the effect of acid. There is a positive correlation between the color and the presence of mouse metallopeptidase-containing platelet reactive protein 13 (ADAMTS13) in the sample. The absorbance (OD) is measured at 450 nm using an enzyme meter and the concentration of the sample is calculated.



● Applications

This kit detects ADAMTS13 in mice in samples without significant cross-reactivity with its analogs.

● Specification

48T, 96T, 5×96T

● Storage & Transportation

2-8°C

Shelf Life: 6 months

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