

A COMPLETE PANEL OF ADAMTS13 ASSAYS TO AID IN THE DIAGNOSIS OF TTP

Thrombotic thrombocytopenic purpura (TTP) is a severe, occlusive, microvascular “thrombotic microangiopathy” characterized by systemic platelet aggregation, organ ischemia, profound thrombocytopenia, and erythrocyte fragmentation.

DUE TO THE LIFE THREATENING NATURE OF THE DISEASE, EARLY DIAGNOSIS IS CRITICAL.

ADAMTS13 and TTP

ADAMTS13, also known as von Willebrand Factor (vWF) cleaving protease, is a zinc metalloproteinase that cleaves ultra large (UL) vWF multimers within the A2 region of vWF ⁽¹⁾. The UL-vWF multimers bind to receptors on platelets inducing platelet aggregation and formation of intravascular microthrombi.

Studies have shown that low levels of ADAMTS13 activity are associated with Thrombotic Thrombocytopenia Purpura (TTP), a life-threatening hematological condition characterized by low platelet count, microvascular thrombi, red cell fragmentation, CNS and renal complications.

- ✓ Low levels of ADAMTS13 activity are strongly associated with a diagnosis of TTP.
- ✓ There is also evidence that the level of ADAMTS13 activity has some prognostic value relative to outcomes in TTP.
- ✓ Autoantibodies to ADAMTS13 may be seen in acquired TTP and may also be drug induced.

Using the Sekisui Diagnostics panel of ADAMTS13 activity, antigen and autoantibody assays gives a comprehensive overview of the status of ADAMTS13 in patients suspected of having TTP, and can aid in differential diagnosis.

ACTIFLUOR™ ADAMTS13 ACTIVITY ASSAY**CE MARKED**

A Fluorescence Resonance Energy Transfer (FRET)-based assay for the measurement of ADAMTS13 activity in human plasma. Citrated plasma is assayed for ADAMTS13 protease activity using recombinant VWF86-ALEXA FRET substrate.

Sample volume: 10µl

Assay time: 20 minutes

IMUBIND® ADAMTS13 ANTIGEN ELISA**CE MARKED**

Enzyme-linked immunosorbent assay to measure ADAMTS13 protein in human plasma.

Sample volume: 5µl

Assay time: 2.5 hours

IMUBIND® ADAMTS13 AUTOANTIBODY ELISA**CE MARKED**

Enzyme-linked immunosorbent assay to measure ADAMTS13 IgG autoantibodies in human plasma. The acquired form of TTP is an autoimmune-like disorder caused by the development of autoantibodies to ADAMTS13 that inhibit its activity.

Sample volume: 5µl

Assay time: 4 hours

ORDERING INFORMATION	CONFIGURATION	PART NO.
ACTIFLUOR™ ADAMTS13 Activity Assay	96 wells	812
IMUBIND® ADAMTS13 Antigen ELISA	96 wells	813
IMUBIND® ADAMTS13 Autoantibody ELISA	96 wells	814

USA: research use only

Reference:

1. Furlan et al., Blood vol. (87) 1996, pp. 4223-4234

**USA**

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