

Patient Name : Demo Patient Name
Age / Sex : 31 Y / M
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 17-Jun-25 08:29
Patient ID : UHID.DEMO.001

Prothrombin Gene Mutation Analysis

EDTA Whole Blood Sample

Accession No: DEMO_BARCODE Collected On: 17-Jun-25 08:29 Received On: 17-Jun-25 12:17 Approved On: 18-Jun-25 21:25

Observation	Result	Unit	Biological Ref. Interval	Method
Prothrombin Gene Mutation	Not Detected			RT-PCR

Interpretation of Result:

- **Homozygous Mutation Detected:** Both alleles carry mutation
- **Heterozygous Mutation Detected:** Single allele carries mutation
- **Not Detected:** Both alleles do not carry mutation

Note:

1. All results should be interpreted in context of clinical findings.
2. This assay detects Prothrombin gene (Factor II) mutation (G20210A)
3. Presence of PCR inhibitors if any, might lead to amplification failure.

Clinical Significance: The second most common thrombophilic genetic defect is the prothrombin G20210A mutation, imparting a 2- to 5-fold increased risk for venous thromboembolism (in heterozygotes) and being present in heterozygous form in 15% to 20% of patients with thrombophilia. Venous thrombosis is a multifactorial disease frequently related to the interaction of genetic and environmental risk factors. Testing for specific mutations in these patients helps to determine the decision on the duration of anticoagulant therapy, risk stratification for primary or secondary prophylaxis. Used as a thrombosis risk factor in patients prior to major surgery, pregnancy, postpartum, oral contraceptive use, estrogen replacement therapy, transient ischemic attacks, premature stroke, peripheral vascular disease, pulmonary embolism & family history of thrombosis or known Factor V mutation.

Advise: Please correlate results clinically.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

