Orderable - FVL
Turnaround Time: 4 weeks

Alternate Name(s):
Factor V
Familial Thrombophilia
Prothrombin/Factor V Prothrombin

Specimen:
1 x 4 mL K$_2$ or K$_3$ EDTA Lavender top Vacutainer tube—may be a frozen aliquot

Collection Information:
Blood samples may be maintained at room temperature or a frozen aliquot is also acceptable.

Reference Ranges:
See report

Interpretive Comments:
Resistance to activated protein C (APC) is a major cause of familial thrombophilia, and can be corrected by an anticoagulant activity expressed by purified factor V. It has been suggested that a point mutation in the gene coding for factor V is responsible for APC resistance (PMID: 7909098, 8208267). This point mutation, (F5:c.1601G>A), occurring towards the 3’ end of exon 10 of the factor V gene, is predicted to cause a missense mutation in the APC cleavage site, (F5:p.Arg534Gln) and confers an increase in the relative risk of a first episode of venous thrombosis of x7 for heterozygote carriers, x35 for heterozygote carriers taking oral contraceptive medication, and x80 for individuals homozygous for the Factor V Leiden mutation (PMID: 11529700).

Storage and Shipment:
THROMBOPHILIA (ASSOCIATED WITH FACTOR V DEFICIENCY)

Must be received in testing laboratory within 5 days of collection, shipped at room temperature by courier/overnight delivery.