# Factor IX (1C2): sc-80600



The Power to Question

#### **BACKGROUND**

Hemostasis following tissue injury involves the deployment of essential plasma procoagulants (Prothrombin and factors X, IX, V and VIII), which are involved in a blood coagulation cascade that leads to the formation of insoluble Fibrin clots and the promotion of platelet aggregation. Coagulation Factor IX (plasma thromboplastic component, F9, F.IX, HEMB) is a vitamin K-dependent, single chain serine protease that is synthesized in the liver and circulates as an inactive precursor. Factor XIa mediated proteolytic cleavage of Factor IX generates Factor IXa, an active serine protease composed of a 145 amino acid light chain and a 236 amino acid catalytic heavy chain, linked through disulfide bonds. Genetic alterations at the Factor IX locus such as point mutations, insertions and deletions, can lead to hemophilia B, also known as Christmas disease.

# REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: F9 (human) mapping to Xq27.1.

## SOURCE

Factor IX (1C2) is a mouse monoclonal antibody raised against full length native Factor IX of human origin.

#### **PRODUCT**

Each vial contains 100  $\mu g \; lg G_1$  in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **APPLICATIONS**

Factor IX (1C2) is recommended for detection of native Factor IX of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Factor IX siRNA (h): sc-40403, Factor IX shRNA Plasmid (h): sc-40403-SH and Factor IX shRNA (h) Lentiviral Particles: sc-40403-V.

Molecular Weight of Factor IX: 59 kDa.

### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

### **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

### **PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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