Product datasheet

Anti-Factor IX/PTC antibody ab97619

Overview

Product name: Anti-Factor IX/PTC antibody
Description: Rabbit polyclonal to Factor IX/PTC
Host species: Rabbit
Tested applications: Suitable for: WB
Species reactivity: Reacts with: Human
Predicted to work with: Dog, Pig, Monkey
Immunogen: Recombinant fragment corresponding to Human Factor IX/PTC aa 217-423.
Database link: P00740
General notes: This product was previously labelled as Factor IX

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer: pH: 7.00
Preservative: 0.025% Proclin 300
 Constituents: PBS, 20% Glycerol
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab97619 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Factor IX is a vitamin K-dependent plasma protein that participates in the intrinsic pathway of blood coagulation by converting factor X to its active form in the presence of Ca(2+) ions, phospholipids, and factor VIIIa.

Tissue specificity
Synthesized primarily in the liver and secreted in plasma.

Involvement in disease
Defects in F9 are the cause of recessive X-linked hemophilia B (HEMB) [MIM:306900]; also known as Christmas disease.
Note=Mutations in position 43 (Oxford-3, San Dimas) and 46 (Cambridge) prevents cleavage of the propeptide, mutation in position 93 (Alabama) probably fails to bind to cell membranes, mutation in position 191 (Chapel-Hill) or in position 226 (Nagoya OR Hilo) prevent cleavage of the activation peptide.
Defects in F9 are the cause of thrombophilia due to factor IX defect (THR-FIX) [MIM:300807]. A hemostatic disorder characterized by a tendency to thrombosis.

Sequence similarities
Belongs to the peptidase S1 family.
Contains 2 EGF-like domains.
Contains 1 Gla (gamma-carboxy-glutamate) domain.
Contains 1 peptidase S1 domain.

Domain
Calcium binds to the gamma-carboxyglutamic acid (Gla) residues and, with stronger affinity, to another site, beyond the Gla domain.

Post-translational modifications
Activated by factor XIa, which excises the activation peptide.
The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

Cellular localization
Secreted.

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Western blot - Anti-Factor IX/PTC antibody (ab97619)

Anti-Factor IX/PTC antibody (ab97619) at 1/1000 dilution + 293T whole cells lysate at 30 µg

Predicted band size: 52 kDa

10% SDS Page

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