abcam

Product datasheet

Recombinant Human Factor IX/PTC protein ab158405

1 Image

Description

Product name	Recombinant Human Factor IX/PTC protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MQRVNMIMAESPGLITICLLGYLLSAECTVFLDHENANKILN RPKRYNSG KLEEFVQGNLERECMEEKCSFEEAREVFENTERTTEFWK QYVDGDQCESN PCLNGGSCKDDINSYECWCPFGFEGKNCELDVTCNIKNG RCEQFCKNSAD NKVVCSCTEGYRLAENQKSCEPAVPFPCGRVSVSQTSK LTRAETVFPDVD YVNSTEAETILDNITQSTQSFNDFTRVVGGEDAKPGQFPW QVVLNGKVDA FCGGSIVNEKWIVTAAHCVETGVKITVVAGEHNIEETEHTE QKRNVIRII PHHNYNAAINKYNHDIALLELDEPLVLNSYVTPICIADKEYTN IFLKFGS GYVSGWGRVFHKGRSALVLQYLRVPLVDRATCLRSTKFTI YNNMFCAGFH EGGRDSCQGDSGGPHVTEVEGTSFLTGIISWGEECAMKG KYGIYTKVSRY VNWIKEKTKLT
Amino acids	1 to 461
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab158405** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA
	Western blot

Form	Liquid
Additional notes	This product was previously labelled as Factor IX.

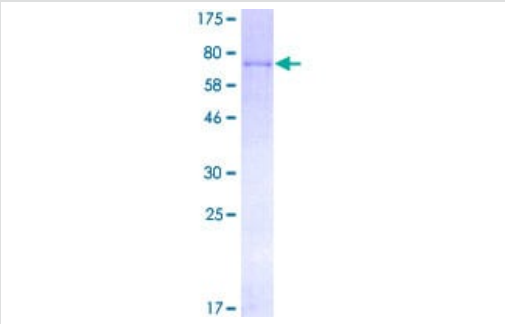
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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.

Images



SDS-PAGE - Recombinant Human Factor IX/PTC protein (ab158405)

ab158405 on a 12.5% SDS-PAGE stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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