

ARG81109 Human Factor IX (total) ELISA Kit

Package: 96 wells
Store at: 4°C and -20°C

Summary

Product Description	ARG81109 Human Factor IX (total) ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Factor IX (total) in plasma.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Factor IX
Conjugation	HRP
Conjugation Note	TMB substrate is used for color development at 450 nm.
Sensitivity	0.012 ng/ml
Sample Type	Plasma
Standard Range	0.1 - 100 ng/ml
Alternate Names	Coagulation factor IX; HEMB; FIX; PTC; Plasma thromboplastin component; F9 p22; THPH8; EC 3.4.21.22; P19; Christmas factor

Properties

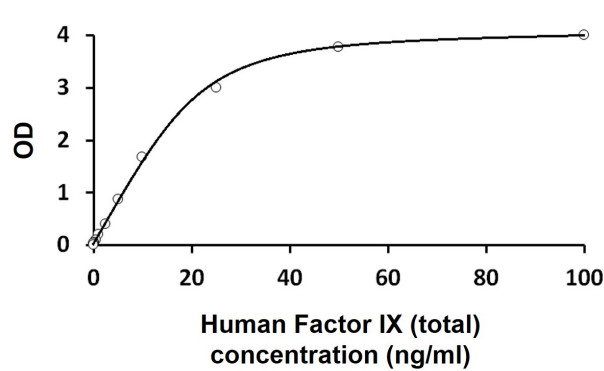
Form	96 well
Storage instruction	Store components at 4°C or -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 2158 Human Swiss-port # P00740 Human
Gene Symbol	F9
Gene Full Name	coagulation factor IX
Background	This gene encodes vitamin K-dependent coagulation factor IX that circulates in the blood as an inactive zymogen. This factor is converted to an active form by factor XIa, which excises the activation peptide and thus generates a heavy chain and a light chain held together by one or more disulfide bonds. The role of this activated factor IX in the blood coagulation cascade is to activate factor X to its active form through interactions with Ca ²⁺ ions, membrane phospholipids, and factor VIII. Alterations of this gene, including point mutations, insertions and deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also called hemophilia B or Christmas disease. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Sep 2015]
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. [UniProt]

Highlight	Related products: Factor IX antibodies ; Factor IX ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Cell Biology and Cellular Response kit; Immune System kit
PTM	Activated by factor XIa, which excises the activation peptide (PubMed:9169594, PubMed:1730085). The propeptide can also be removed by snake venom protease (PubMed:20004170, PubMed:20080729). The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. Predominantly O-glucosylated at Ser-99 by POGLUT1 in vitro. Xylosylation at this site is minor.

Images



ARG81109 Human Factor IX (total) ELISA Kit standard curve image

ARG81109 Human Factor IX (total) ELISA Kit results of a typical standard run with optical density reading at 450 nm.