Cleaved FA9 (heavy chain,Val227) Rabbit pAb

CatalogNo: YC0128

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,ELISA

MW
- 27kD,45kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:1000-2000
ELISA 1:5000-20000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human FA9 (heavy chain, Cleaved-Val227)
Specificity	This antibody detects endogenous levels of Human,Mouse,Rat FA9 (heavy chain, Cleaved-Val227, protein was cleaved amino acid sequence between 226-227)

Target Information

Gene name	F9 Factor IX

Protein Name FA9 (heavy chain, Cleaved-Val227)

Organism	Gene ID	UniProt ID
Human	2158;	P00740;
Mouse	14071;	P16294;
Rat	24946;	P16296;

Cellular Localization Secreted .

Tissue specificity Detected in blood plasma (at protein level) (PubMed:3857619, PubMed:8295821, PubMed:2592373, PubMed:9169594, PubMed:19846852). Synthesized primarily in the liver and secreted in plasma.

Function Catalytic activity:Selective cleavage of Arg-|-Ile bond in factor X to form factor Xa.,Disease:Defects in F9 are the cause of recessive X-linked hemophilia B (HEMB) [MIM:306900]; also known as Christmas disease.,Disease: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.,Domain:Calcium binds to the gamma-carboxyglutamic acid (Gla) residues and, with stronger affinity, to another site, beyond the Gla domain.,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.,miscellaneous:In 1952, one of the earliest researchers of the disease, Dr. R.G. Macfarlane used the patient's surname, Christmas, to refer to the disease and also to refer to the clotting factor which he called the 'Christmas Factor' At the time Stephen Christmas was a 5-year-old boy. He died in 1993 at the age of 46 from acquired immunodeficiency syndrome contracted through treatment with blood products.,online information:Clinical information on BeneFix,online information:Factor IX entry,online information:Hemophilia B mutation database,online information:The Christmas Factor -Issue 41 of December 2003,pharmaceutical:Available under the names BeneFix (Baxter and American Home Products). Used to treat hemophilia B.,PTM:Activated by factor XIa, which excises the activation peptide.,PTM:The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.,similarity:Belongs to the peptidase S1 family.,similarity:Contains 1 Gla (gamma-carboxy-glutamate) domain.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 2 EGF-like domains.,subunit:Heterodimer of a light chain and a heavy chain; disulfide-linked.,tissue specificity:Synthesized primarily in the liver and secreted in plasma.,

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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