

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Coagulation Factor XIV/Protein C in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Factor VII, rhFactor X, rhFactor XI, rhThrombin, rhUPA, rhHGFA, rhKallikrein 1, 3
Source	Monoclonal Mouse IgG ₁ Clone # 390226
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Coagulation Factor XIV/Protein C Ala43-Pro461 Accession # P04070
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Coagulation factor XIV, also known as Protein C, has anti-coagulation activity by degrading factors VIIIa and Va, which are required for thrombin activation. Protein C deficiency results in hereditary thrombophilia, and a severe recessive form may result in massive thrombosis fatal to patient. The deduced amino acid sequence of human protein C predicts a signal peptide (aa 1-32), a propeptide (aa 33-42), and a mature chain (aa 43-461), which can be converted into two disulfide-linked chains (light: aa 43-199 and heavy: aa 200-461). The amino acid sequence of human protein C is 99.8%, 80%, 70%, 69% and 54% identical to that of chimpanzee, canine, rat, mouse and chicken.

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