

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Coagulation Factor XIV/Protein C in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) Factor VII, rhFactor X, and rhFactor XI is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Coagulation Factor XIV/Protein C Ala43-Pro461 Accession # P04070
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Coagulation Factor XIV/Protein C (Catalog # 3349-SE)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.