

## DESCRIPTION

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

## 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
<b>Western Blot</b>	0.1 µg/mL	Recombinant Human Coagulation Factor XIV/Protein C (Catalog # 3349-SE)
<b>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Coagulation Factor XIV/Protein C (Catalog # 3349-SE), see our available <a href="#">Western blot detection antibodies</a>

## PREPARATION AND STORAGE

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

## 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.