

#### DESCRIPTION

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| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Coagulation Factor XI Light Chain in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) UPA-1, rhThrombin, rhKLK1, rhKLK3, rhKLK4, rhKLK5, rhKLK6, rhKLK8, rhKLK11, rhHGFA, rhFactor VI                       |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 318104                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human Coagulation Factor XI<br>Glu19-Val625<br>Accession # P03951                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Neutralization</b>      | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

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

#### BACKGROUND

Coagulation factors XI and XIa refer to the pro and active forms of the same protease, respectively (1). Factor XI is synthesized in the liver and circulates in the plasma as a disulfide bond-linked dimer complexed with high molecular weight kininogen. Factor XI is converted into XIa via either the contact phase of blood coagulation or thrombin-mediated activation on the platelet surface. The resulting XIa converts factor IX into IXa, which subsequently activates factor X into Xa. Factor Xa in turn activates factor II/thrombin to complete the coagulation cascade. Patients with factor XI deficiency are prone to excessive bleeding after hemostatic challenge. There are two alternative splicing forms. Isoform 1 corresponds to the circulating plasma factor XI and isoform 2 is produced by platelets and megakaryocytes but absent from other blood cells (2). The 625 amino acid (aa) precursor of isoform 1 consists of a signal peptide (aa 1-18) and the mature chain (aa 19-625). The mature chain (XI) can be further processed into the heavy chain (aa 19-387) and the light chain (aa 388-625) (XIa).

#### PRODUCT SPECIFIC NOTICES

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