

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kininogen Light Chain in direct ELISAs and Western blots. In Western blots, it reacts with the full length (amino acids 19-644) and two forms of the light chain starting at amino acids 390 and 438, respectively, and does not react
Source	Monoclonal Mouse IgG _{2B} Clone # 236006
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kininogen Gln19-Ser644 (Ile581Thr) (predicted) Accession # P01042.2
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Kininogen, also known as α₂-thiol proteinase inhibitor, is a multi-function protein. There are two alternatively spliced forms, designated as the high molecular weight (HMW) and low MW (LMW) forms (1). The HMW form is synthesized as a 644 amino acid (aa) precursor with a signal peptide (aa 1-18). The mature chain (aa 19-644) is further processed into the heavy (aa 19-380) and the light (aa 390-644) chains. The active peptide bradykinin (aa 381-389) is released, which has a variety of functions including muscle contraction, hypotension and inflammation. The heavy chain consists of three cystatin-like domains, which are responsible for inhibiting cysteine proteases. The light chain consists of a His-rich domain, which is associated with the clotting activity. In comparison to the HMW form, the LMW Kininogen (427 aa) has the same sequence in its heavy chain and bradykinin, but a different sequence in its light chain (aa 402-427). The LMW form is not involved in blood clotting.

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