Mouse Kininogen Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 288424

Catalog Number: FAB22061X

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Kininogen Light Chain in direct ELISAs and Western blots. In Western blots, reacts with full length Kininogen (aa 21-661) and several forms of the light chain starting at residue 389, and does not react with the heavy chain. In Western
Source	Monoclonal Rat IgG_{2A} Clone # 288424
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Kininogen Glu21-Ser661 Accession # O08677
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 mouse HMW form is synthesized as a 661 amino acid (aa) precursor with a signal peptide (aa 1-20). The mature chain (aa 21-661) is further processed into the heavy (aa 21-379) and the light (aa 389-661) chains. The active peptide bradykinin (aa 380-388) 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 (432 residues) has the same sequence in its heavy chain and bradykinin but has a different sequence in its light chain (aa 401-432). The LMW form is not involved in blood clotting.

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