

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) KLK-3, -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, rhHGFA, rhFactorVII, rhFactorXI,
Source	Monoclonal Mouse IgG _{2A} Clone # 323803
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 1 Ile25-Ser262 Accession # NP_002248
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

Kallikrein 1 (KLK1), also known as tissue kallikrein, is a member of human tissue kallikrein family (1). The best known physiological function of KLK1 is the cleavage of kininogen to release the vasoactive kinin peptide (bradykinin or lysyl-bradykinin), which regulates vasodilation, blood pressure reduction, smooth muscle relaxation and contraction, pain induction and inflammation (2). In addition, KLK1 may play a role in angiogenesis and tumorigenesis (2). Human KLK1 precursor contains a signal peptide (residues 1 to 18), a short pro peptide (residues 19 to 24) and a mature chain (residues 25 to 262). The purified rhKLK1 contains the mature chain and the propeptide from human KLK5. After being activated by thermolysin, rhKLK1 is active against a fluorogenic peptide substrate described above.

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