

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 5 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) Kallikrein 3, rhKallikrein 4, rhKallikrein 8, or rhKallikrein 11 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 193318
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 5 Ile67-Ser293 Accession # Q9Y337
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

Human tissue Kallikrein 5 (hK5, also known as stratum corneum tryptic enzyme) is a serine protease of the human tissue Kallikrein gene family (1, 2). The deduced amino acid sequence of human Kallikrein 5 consists of a signal peptide (Met1 to Gly22), a pro region (Val23 to Arg66) and a mature/active enzyme (Ile67 to Ser293). Kallikrein 5 is expressed mainly in skin, breast, brain and testis and to a lesser extent in many other tissues (3). Kallikrein 5 overexpression is an indicator of poor prognosis in ovarian cancer (4). Kallikrein 5 is a candidate physiological activator of Kallikrein 7 in the stratum corneum (5).

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