

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 7 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Kallikrein 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, or 15 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 333931
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 7 Glu23-His252 Accession # P49862
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.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
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 7 (hK7), also known as stratum corneum chymotryptic enzyme (SCCE), is a member of the human tissue kallikrein family. Full-length Kallikrein 7 consists of 253 amino acids (aa), with a signal peptide (aa 1-22), short pro peptide (aa 23-29) and mature chain (aa 30-252) (1). Predominantly expressed in the skin, a major physiological function of Kallikrein 7 is to regulate the desquamation process through proteolysis of the intercellular adhesive structures between corneocytes (2). Thus, it is related to some inflammatory skin diseases, such as psoriasis and chronic itchy dermatitis (3, 4). Studies have shown that one potential physiological activator for Kallikrein 7 is Kallikrein 5, another member of the human tissue Kallikrein family. Along with Kallikrein 14, these three Kallikreins form a proteolytic cascade in the stratum corneum (5).

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