Human Kallikrein 7 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 333925

Catalog Number: FAB26242X

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 7 in direct ELISA.
Source	Monoclonal Mouse IgG_{2B} Clone # 333925
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 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.*

ELISA	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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