

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Kallikrein 5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant human (rh) KLK8 and rhKLK13 is observed and less than 1% cross-reactivity with rhKLK1, -3, -4, -7, -9, -10, -11, and -12 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 5 Ile67-Ser293 Accession # Q9Y337
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Kallikrein 5 (Catalog # 1108-SE)
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skin
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human Kallikrein 5 (Catalog # 1108-SE), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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).

References:

1. Brattsand, M. and T. Egelrud (1999) J. Biol. Chem. **274**:30033.
2. Yousef, G.M. *et al.* (1999) Anticancer Res. **19**:2843.
3. Yousef, G.M. and E.P. Diamandis (2001) Endocrine Rev. **22**:184.
4. Yousef, G.M. and E.P. Diamandis (1999) J. Biol. Chem. **274**:37511.
5. Kim, H. *et al.* (2001) Br. J. Cancer **84**:643.