

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Kallikrein 5 Propeptide in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) Kallikrein 5 (mature), rhKallikrein 1, -3, -4, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, rhKallikrein B1, rhHGFA, rhFactor VII, rhFactor X, rhFactor XI, rhThrombin, or rhuPA-1 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 325302
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 5 Val23-Arg66 Accession # NP_036559
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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
<b>Western Blot</b>	1 µg/mL	Recombinant Human Kallikrein 5 (Catalog # 1108-SE)

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.