Human Kallikrein 5 Antibody
Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1108

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.
*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.

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

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.
- 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: