

## DESCRIPTION

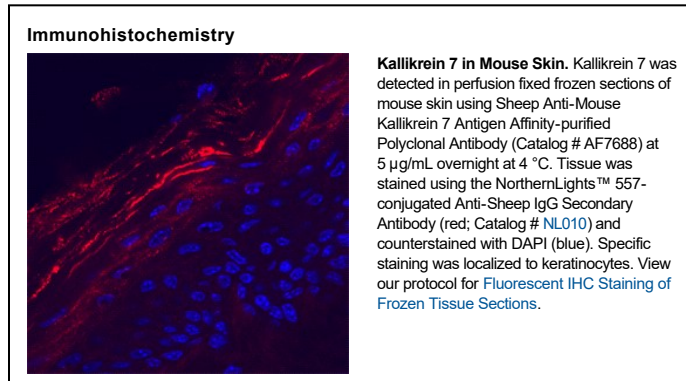
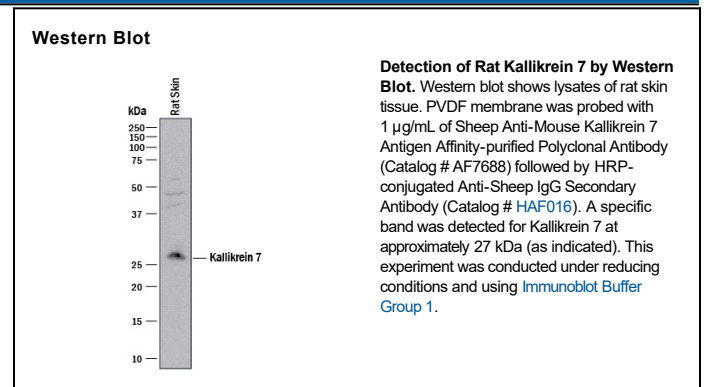
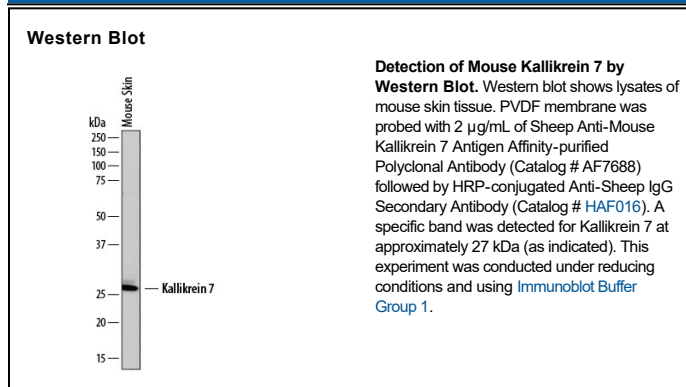
<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects mouse and rat Kallikrein 7 in Western blots. Detects mouse Kallikrein 7 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Kallikrein 7 is observed, and less than 1% cross-reactivity with recombinant mouse Kallikrein 5 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Kallikrein 7 Gln22-Arg249 (predicted) Accession # Q91VE3
<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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1-2 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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

KLK7 (Kallikrein 7; also Serine protease 6, Thymopsin and Stratum corneum chymotryptic enzyme/SCCE) is a 27 kDa (predicted), secreted glycoprotein member of the kallikrein subfamily, peptidase S1 family of enzymes. It is an IL-4 and IL-13-inducible chymotrypsin-like serine protease that has restricted expression, being associated with stratum spinosum and granulosum keratinocytes, distal and proximal convoluted tubule epithelium, limited pancreatic acinar cells. In contrast, KLK7 is widely expressed by a variety of carcinoma cell types. KLK7 preferentially cleaves peptide bonds that contain an aromatic (Tyr or Phe) residue in the P1 (or postcleavage C-terminal amino acid) position. Molecules known to serve as substrates for KLK7 include chemerin, fibronectin, E-cadherin, LL37, procaspase-14, MMP-9 and desmoglein. The nature of the KLK7 substrates indicates that it plays a key role in intercellular adhesion dissolution with subsequent cell migration. Mouse KLK7 is synthesized as a 249 amino acid (aa) precursor. It contains a 21 aa signal sequence, a four aa prosegment, and a 224 aa mature region (aa 26-249). The mature molecule contains one large protease domain (aa 26-246) and a variable, three aa C-terminus that possesses either a VSW or ASR motif. Over aa 22-249, mouse KLK7 shares 75% and 85% aa sequence identity with human and hamster KLK7, respectively.