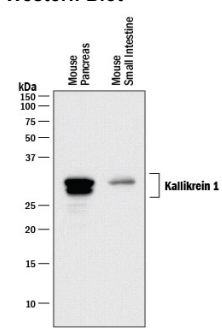
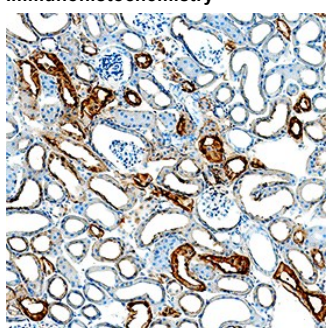


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse Kallikrein 1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Kallikrein 1, recombinant mouse (rm) Kallikrein 5 and rmKallikrein 7 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Kallikrein 5 precursor/Kallikrein 1 Val23-Arg67(Kallikrein 5 precursor), Ile25-Asp261(Kallikrein 1) Accession # NP_081082, P15947
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 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
Western Blot	0.25 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA	
<p>Western Blot</p>  <p>Detection of Mouse Kallikrein 1 by Western Blot. Western blot shows lysates of mouse pancreas tissue and mouse small intestine. PVDF membrane was probed with 0.25 µg/mL of Sheep Anti-Mouse Kallikrein 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7928) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Kallikrein 1 at approximately 27-30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunohistochemistry</p>  <p>Kallikrein 1 in Mouse Kidney. Kallikrein 1 was detected in perfusion fixed frozen sections of mouse kidney using Sheep Anti-Mouse Kallikrein 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7928) at 1.5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to tubules. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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
The kallikreins are a family of trypsin-like serine proteases, many of which are associated with a variety of cancers. Kallikrein 1 (KLK1) also known as tissue kallikrein and urinary kallikrein is a 25 - 30 kDa member of peptidase S1 family of proteins. At least two isoforms are predicted. An important physiological function of KLK1 is the cleavage of kininogen to release a vasoactive kinin peptide, bradykinin (for rodent KLK1) or lysyl-bradykinin (for human KLK1). Kinins regulate vasodilation, blood pressure reduction, smooth muscle relaxation and contraction, pain induction and inflammation. Over aa 25-261, mouse KLK1 shares 64% aa identity with human KLK1.