# biotechne

### Human Kallikrein 12 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF3095

### RDSYSTEMS

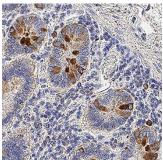
DESCRIPTION		
Species Reactivity	Human	
Specificity Detects human Kallikrein 12 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross- recombinant human (rh) Kallikrein 8, rhKallikrein 10, rhKallikrein 11, and rhKallikrein 15 is observed.		
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Kallikrein 12 Ala18-Asn248 Accession # Q9UKR0	
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

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Kallikrein 12 (Catalog # 3095-SE)
Immunohistochemistry	3-15 μg/mL	Immersion fixed paraffin-embedded sections of Human Duodenum
Immunoprecipitation	25 μg/mL	Conditioned cell culture medium spiked with Recombinant Human Kallikrein 12 (Catalog # 3095-SE), see our available Western blot detection antibodies

DATA

#### Immunohistochemistry



Detection of Kallikrein 12 in Human Duodenum. Kallikrein 12 was detected in immersion fixed paraffinembedded sections of Human Duodenum using Sheep Anti-Human Kallikrein 12 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3095) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Sheep IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC006). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in epithelial cells in intestinal glands. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

# 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. • 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.

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449

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#### BACKGROUND

Human tissue Kallikrein 12, encoded by the KLK12 gene, is a secreted serine protease that belongs to the human tissue kallikrein family. It is present in many tissues, such as salivary gland, stomach and breast. KLK12 displays trypsin-like enzymatic activity. This activity can be inhibited by Serpin F2 (R&D Systems, Catalog # 1470-PI). The physiological functions of KLK12 still remain unclear. Its expression is modulated by steroid hormones and is down-regulated in breast cancer (2). Human KLK12 has three splice variants resulting from alternative splicing of the 3' end. The KLK12 produced by the R&D Systems corresponds to the full-length classical form, also known as isoform 2 (1). The amino acid sequence of human KLK12 is 80%, 77%, 71% and 66% to that of bovine, canine, mouse, and rat. The recombinant human KLK12 can be autoactivated under the conditions described in the Activity Assay Protocol. The active enzyme has the N-terminal sequence of Ingreson and Ingreson and the sequence of Ingreson and the Activity Assay Protocol. The active enzyme has the N-terminal sequence of Ingreson and Ingr

#### References:

- 1. Yousef, G.M. et al. (2000) Genomics. 69:331.
- 2. Yousef, G.M. and E.P. Diamandis (2001) Endocrine Rev. 22:184.

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