

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects mouse Gastrokine 1 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Gastrokine 1 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Gastrokine 1 Tyr38-Tyr201 Accession # Q9CR36
<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.

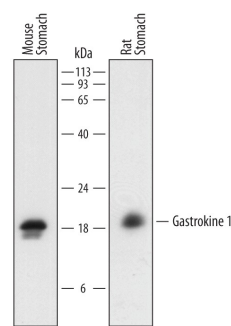
## APPLICATIONS

**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>	0.1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

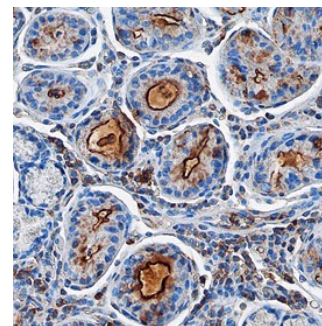
## DATA

### Western Blot



**Detection of Mouse and Rat Gastrokine 1 by Western Blot.** Western blot shows lysates of mouse stomach tissue and rat stomach tissue. PVDF membrane was probed with 0.1 µg/mL of Sheep Anti-Human/Mouse Gastrokine 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7287) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Gastrokine 1 at approximately 18-20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

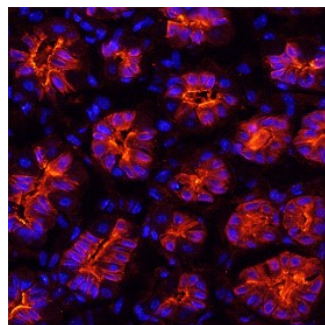
### Immunohistochemistry



#### Gastrokine 1 in Human Stomach.

Gastrokine 1 was detected in immersion fixed paraffin-embedded sections of human stomach using Sheep Anti-Mouse Gastrokine 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7287) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). 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 islets. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

### Immunohistochemistry



#### Gastrokine 1 in Mouse Stomach.

Gastrokine 1 was detected in perfusion fixed frozen sections of mouse stomach using Sheep Anti-Mouse Gastrokine 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7287) at 15 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to islets. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<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

Gastrokine-1 (GKN1; also CA11 and AMP-18) is an 18-20 kDa member of the Gastrokine protein family. It has limited expression, being restricted to mucous secreting pyloric antrum epithelial cells. Gastrokine-1 appears to promote epithelial cell proliferation and migration, and induce the formation of tight junctions between epithelial cells. By contrast, gastrokine-1 induces Fas expression in tumor cells, resulting in apoptosis. Mature mouse gastrokine-1 is 166 amino acids (aa) in length (aa 36-201). Based on the SwissProt sequence, it possesses one BRICHOS domain (aa 71-165) that contains a mitogenic sequence (aa 113-131). There is one potential alternative start site at Met18. Over aa 38-201, mouse gastrokine-1 shares 65% and 92% aa sequence identity with human and rat gastrokine-1, respectively.