

DESCRIPTION

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

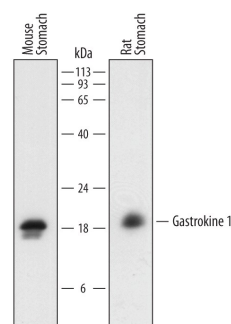
APPLICATIONS

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	0.1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

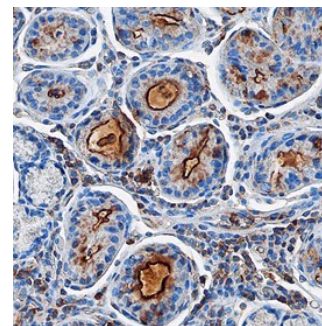
DATA

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.

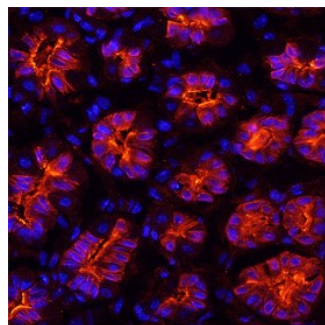
Immunohistochemistry



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

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

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.