Human Gastrokine 1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6395

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Gastrokine 1 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant mouse Gastrokine 1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Gastrokine 1 Asn35-Asn199 Accession # Q9NS71
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.

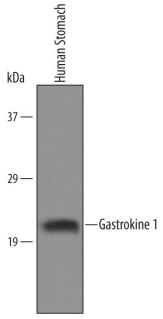
APPLICATIONS

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

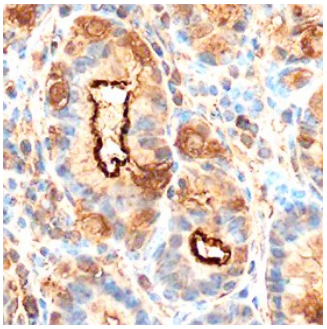
DATA

Western Blot



Detection of Human Gastrokine 1 by Western Blot. Western blot shows lysates of human stomach tissue. PVDF Membrane was probed with 1 µg/mL of Human Gastrokine 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6395) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Gastrokine 1 at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunohistochemistry



Gastrokine 1 in Human Stomach. Gastrokine 1 was detected in immersion fixed paraffin-embedded sections of human stomach using Sheep Anti-Human Gastrokine 1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6395) at 3 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 luminal part of glandular epithelial cells. View our protocol for Chromogenic IHC Staining of Paraffin-embedded 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.** ● 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 kDa member of the CA11 protein family. It has limited expression, being restricted to mucous secreting pyloric atrial epithelium. Gastrokine 1 appears to promote epithelial proliferation and migration, and induce the formation of tight junctions between epithelial cells. Mature human Gastrokine 1 is 165 amino acids (aa) in length. Based on the SwissProt sequence, it possesses one BRICHOS domain (aa 54-150) that contains a mitogenic sequence (aa 97-117). There is one potential alternative start site 14 aa upstream of the standard site that does not appear to be utilized. Over aa 21-185 (aa 35-199 of SwissProt Q9NS71), human Gastrokine 1 shares 65% aa identity with mouse Gastrokine 1.