

DESCRIPTION

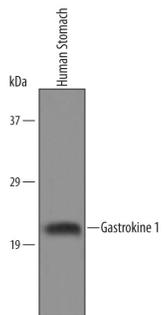
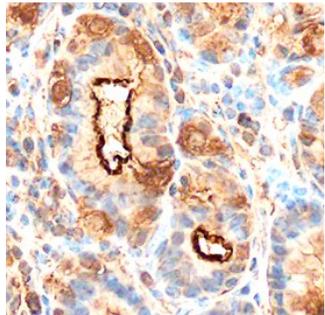
Species Reactivity	Human
Specificity	Detects human Gastrokeine 1 in direct ELISAs and Western blots. In direct ELISAs, less than 3% cross-reactivity with recombinant mouse Gastrokeine 1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Gastrokeine 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

<p>Western Blot</p>  <p>Detection of Human Gastrokeine 1 by Western Blot. Western blot shows lysates of human stomach tissue. PVDF Membrane was probed with 1 µg/mL of Human Gastrokeine 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 Gastrokeine 1 at approximately 20 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>Gastrokeine 1 in Human Stomach. Gastrokeine 1 was detected in immersion fixed paraffin-embedded sections of human stomach using Sheep Anti-Human Gastrokeine 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.</p>
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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

Gastrokeine 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. Gastrokeine 1 appears to promote epithelial proliferation and migration, and induce the formation of tight junctions between epithelial cells. Mature human Gastrokeine 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 Gastrokeine 1 shares 65% aa identity with mouse Gastrokeine 1.