

#### DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                        |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Gastrokine 1 in direct ELISAs and Western blots.                               |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                         |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                    |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Gastrokine 1<br>Asn35-Asn199<br>Accession # Q9NS71 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm              |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                 |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                              |

#### 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.

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>         | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunohistochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

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