

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MUC-4 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human MUC-4 Asn1137-Glu1317 Accession # Q99102
<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 as a 0.2 µm filtered solution in PBS.

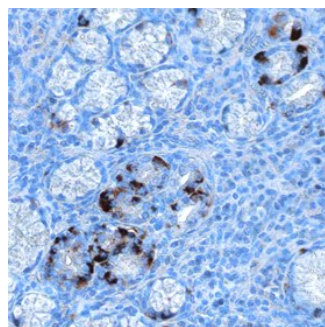
#### APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

#### DATA

##### Immunohistochemistry



**MUC-4 in Human Stomach.** MUC-4 was detected in immersion fixed paraffin-embedded sections of human stomach using Goat Anti-Human MUC-4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8195) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes and cytoplasm of epithelial cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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

MUC-4 (Mucin-4), also called ASGP (Ascites Sialoglycoprotein) is a highly glycosylated type I transmembrane glycoprotein that may be up to 950 kDa in its full-length, fully glycosylated form. Human MUC-4 cDNA encodes 2169 amino acids (aa) with a 28 aa signal sequence and a cleavage site that creates a 1416 aa soluble, extracellular alpha chain and a 725 aa single-pass transmembrane beta chain. Between aa 1072-1317 within the alpha chain, human MUC-4 shares 69% aa sequence identity with mouse and rat MUC-4. At least 14 soluble or transmembrane splice variants of 1102-2117 aa have been described, 5 of which contain the full sequence used as an immunogen. MUC-4 can serve as a ligand for the oncogenic receptor ErbB2 and a modulator of its phosphorylation and signaling. MUC-4 is frequently aberrantly expressed in epithelial tumors and can promote tumor growth and metastasis.