

DESCRIPTION

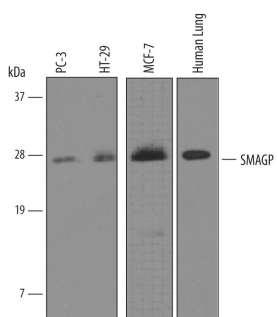
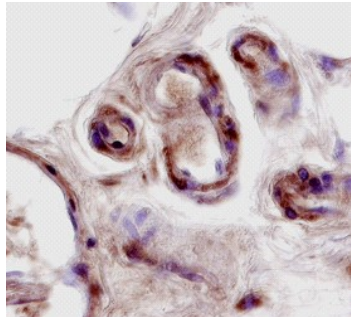
Species Reactivity	Human
Specificity	Detects human SMAGP in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 40% cross-reactivity with recombinant rat SMAGP is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SMAGP Thr2-Thr34, Phe56-Ile97 Accession # Q0VAQ4
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 SMAGP by Western Blot. Western blot shows lysates of human lung tissue, PC-3 human prostate cancer cell line, HT-29 human colon adenocarcinoma cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human SMAGP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3959) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for SMAGP at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunohistochemistry</p>  <p>SMAGP in Human Colon. SMAGP was detected in immersion fixed paraffin-embedded sections of human colon using 15 µg/mL Goat Anti-Human SMAGP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3959) overnight at 4 °C. Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

SMAGP (small transmembrane and glycosylated protein) is a 25 kDa member of the SMAGP family of proteins. It is expressed on breast, colon and biliary duct epithelium, and likely plays a role in cell-cell adhesion. Human SMAGP is an O-glycosylated, 97 amino acid (aa) type III transmembrane glycoprotein that contains a signal sequenceless N-terminal extracellular region (aa 1-34) plus a 39 aa C-terminal cytoplasmic domain. Over the intra- and extracellular regions combined, human SMAGP is 76% aa identical to mouse SMAGP.