Human SMAGP Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3959

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	*E. coli*-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.

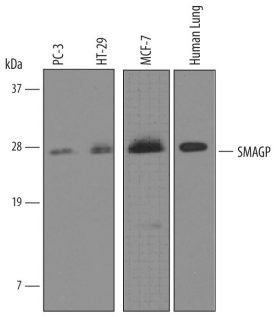
APPLICATIONS

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

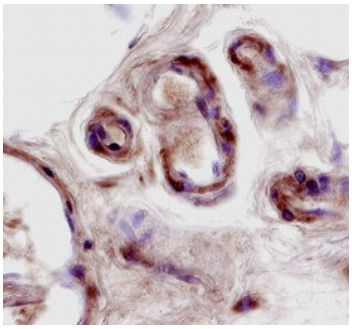
DATA

Western Blot



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.

Immunohistochemistry



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.

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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956