Human S100P Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2957

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100P in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) S100B and rhS100A10 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human S100P Met1-Lys95 Accession # P25815
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 either lyophilized or as a 0.2 μm filtered solution in PBS.

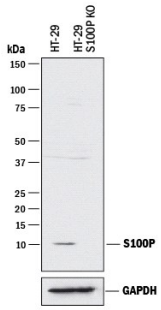
APPLICATIONS

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	0.5 µg/mL	See Below
Immunohistochemistry	0.3-15 µg/mL	See Below
Knockout Validated	S100P is specifically detected in HT-29 human colon adenocarcinoma parental cell line but is not detectable in S100P knockout HT-29 cell line.	

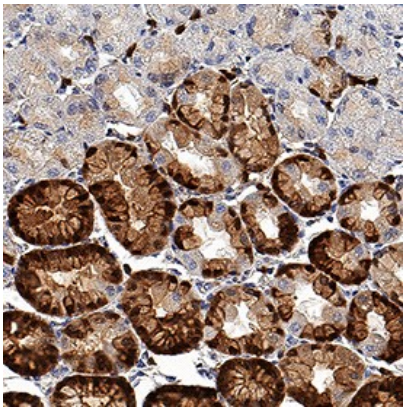
DATA

Western Blot



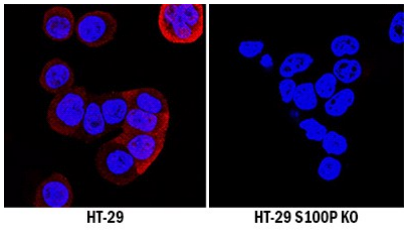
Detection of Human S100P by Western Blot. Western blot shows lysates of HT-29 human colon adenocarcinoma parental cell line and S100P knockout HT-29 cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human S100P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2957) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for S100P at approximately 10 kDa (as indicated) in the parental HT-29 cell line, but is not detectable in knockout HT-29 cell line. GAPDH (Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



S100P in Human Stomach. S100P was detected in immersion fixed paraffin-embedded sections of human stomach using Goat Anti-Human S100P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2957) at 0.3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Goat IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC004). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in gastric glands. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Knockout Validated



S100P Specificity is Shown by Immunocytochemistry in Knockout Cell Line. S100P was detected in immersion fixed HT-29 human colon adenocarcinoma cell line but is not detected in S100P knockout (KO) HT-29 Human Cell Line cell line using Goat Anti-Human S100P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2957) at 0.3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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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.** ● 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

S100P is a member of the S100 protein family, whose members are calcium-binding proteins containing two characteristic E-F hand motifs. S100P proteins exist as homodimers or heterodimers (*e.g.* with S100A1). They interact with target proteins in a Ca^{++}-dependent manner to regulate cell functions. S100P is localized intracellularly but can also be released from cells to act extracellularly. The amino acid sequence of human S100P is 47% identical to that of rat S100P.

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