

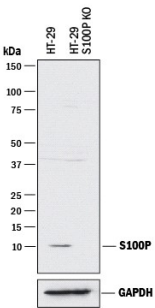
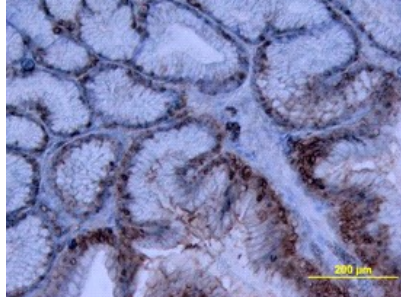
DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human S100P in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) S100B and rhS100A10 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human S100P Met1-Lys95 Accession # P25815
<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 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
<b>Western Blot</b>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Knockout Validated</b>	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**

<p><b>Western Blot</b></p>  <p><b>Detection of Human S100P by Western Blot.</b> 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.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>S100P in Human Stomach Cancer Tissue.</b> S100P was detected in immersion fixed paraffin-embedded sections of human stomach cancer tissue using Goat Anti-Human S100P Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2957) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Paraffin-embedded Tissue Sections</a>.</p>
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**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**

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<sup>++</sup>-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.