

**DESCRIPTION**

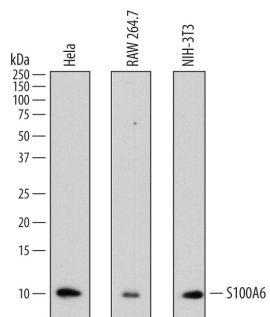
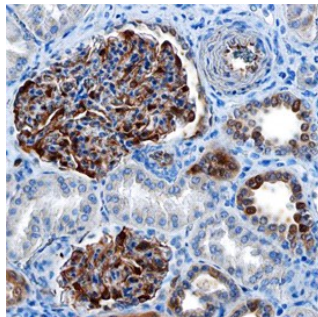
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human S100A6 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse S100A6 and no cross-reactivity with recombinant human (rh) S100A1, rhS100A4, or rhS100B is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 754102
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human S100A6 Met1-Gly90 Accession # P06703
<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>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	8-25 µg/mL	See Below

**DATA**

<p><b>Western Blot</b></p>  <p><b>Detection of Human and Mouse S100A6 by Western Blot.</b> Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, RAW 264.7 mouse monocyte/macrophage cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human S100A6 Monoclonal Antibody (Catalog # MAB7467) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for S100A6 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p><b>Immunohistochemistry</b></p>  <p><b>S100A6 in Human Kidney.</b> S100A6 was detected in immersion fixed paraffin-embedded sections of human kidney using Mouse Anti-Human S100A6 Monoclonal Antibody (Catalog # MAB7467) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS002) and counter-stained with hematoxylin (blue). Specific staining was localized to glomeruli and distal tubules. 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>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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**

S100A6, also called PRA (prolactin receptor-associated protein) and calcyclin, is a 10 kDa member of the S100 family of calcium-binding proteins. Human S100A6 is 90 amino acids (aa) in length and contains two calcium-binding EF-hand domains (aa 12 - 47 and 48 - 83). Intracellularly, S100A6 will both noncovalently homodimerize and heterodimerize with S100B plus SGT1. Extracellularly, it is secreted via a noncanonical pathway and binds to RAGE, inducing apoptosis. It is expressed by neurons, endothelium, fibroblasts and glandular epithelia. Human S100A6 shares 95% aa sequence identity with mouse and rat S100A6. This antibody detects mouse S100A6 in Western Blots. Mouse cross-reactivity has not been tested in Immunohistochemistry