

## DESCRIPTION

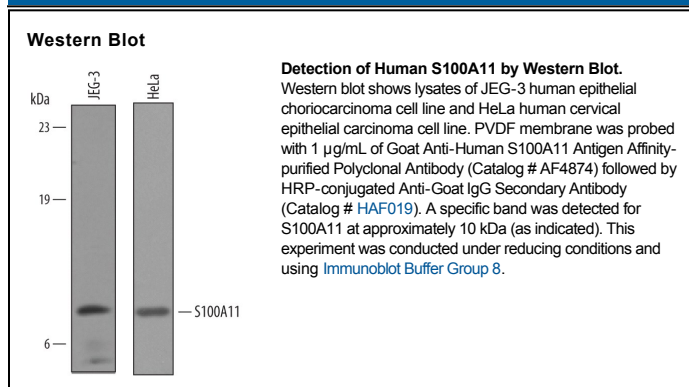
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human S100A11 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human (rh) S100A1, A2, A7, A8, A10, A13, A16, rhS100B, rhS100P, recombinant mouse (rm) S100A6, and rmS100A10 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human S100A11 Ala2-Thr105 Accession # P31949
<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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skin

## DATA



## 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

S100A11 (also S100C and calgizzarin) is a 10-12 kDa member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is produced by smooth muscle and keratinocytes. Intracellularly, it suppresses growth; extracellularly, it exists as both a monomer, homodimer, and heterodimer with S100B, binds to RAGE, induces EGF, and promotes cell growth. Human S100A11 is 105 amino acids (aa) in length. It contains two EF-hand motifs (aa 13-49 and 55-90) and one high-affinity Ca-binding site (aa 68-79), and binds annexin I with its C-terminal half. There may be one alternative splice form that apparently contains a series of mutations over aa 61-79 and shows 90% overall aa identity to the standard form. Full-length human S100A11 shares 78% and 82% aa identity with mouse and porcine S100A11, respectively.