Human S100A11 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4874

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human S100A11 Ala2-Thr105 Accession # P31949
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.

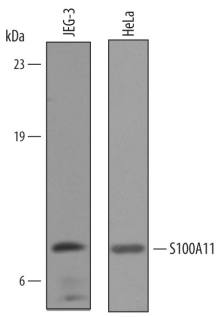
APPLICATIONS

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	1 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human skin

DATA

Western Blot



Detection of Human S100A11 by Western Blot. Western blot shows lysates of JEG-3 human epithelial choriocarcinoma cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human S100A11 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4874) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for S100A11 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

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

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.

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