

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100A7 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human S100A8 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human S100A7 Met1-Gln101 Accession # AAA60210
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Human S100A7

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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

S100A7 (also Psoriasin) is an 11-13 kDa member of the S101 family, EF-hand superfamily of Ca-binding proteins. It is produced by keratinocytes and exists as both an intracellular and extracellular polypeptide. Intercellularly, it binds to E/FABP and may participate in fatty acid metabolism. Extracellularly, it is both monomeric and heterooligomeric and exhibits antibacterial properties. Human S100A7 is 101 amino acids (aa) in length. It contains two EF-hand motifs (aa 13-48 and 50-85), three zinc-binding His residues, one high-affinity Ca-binding site (aa 63-74) and an overlapping antibacterial sequence (aa 35-80). There appear to be no meaningful rodent structural orthologs. Human S100A7 is 93% aa identical to human S100A15/7A, and the S100A7 gene has a duplication (S100A7B) that is 54% aa identical to S100A7.