

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human S100A7 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) S100A1, A2, A4, A6, A8, A9, A10, A11, A14, A16, rhS100B, rhS100P, recombinant mouse S100A1, A4, A6, A8, A9, A10, A11, A13, or A16 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 577513
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human S100A7 Met1-Gln101 Accession # P31151
<b>Conjugate</b>	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## 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.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## 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.

## PRODUCT SPECIFIC NOTICES

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