

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 577513
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100A7 Met1-Gln101 Accession # P31151
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	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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