

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100A11 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) S100A1, A2, A4, A6, A7, A8, A9, A10, A13, rhS100B, rhS100P, recombinant mouse S100A1, A4, A6, A8, A9, A10, A11, A13, or A16 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 672816
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100A11 Ala2-Thr105 Accession # P31949
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Western Blot 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

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.

PRODUCT SPECIFIC NOTICES

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