

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100A2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) S100A1, A7, A8, A10, A11, A13, rhS100B, rhS100P, recombinant mouse S100A4, A6, A9, or A16 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 674033
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100A2 Met1-Pro97 Accession # P29034
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

S100A2 (also S100L and CaN19) is a 10 kDa member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is expressed by multiple cell types, including keratinocytes, chondrocytes, and bronchial epithelium. S100A2 regulates both Ca and Zn (in human) within cells, and increases p53 activity. It forms both noncovalent and covalent homodimers, and a homotetramer under certain conditions. Human S100A2 is 98 amino acids (aa) in length. It contains two EF-hand motifs (aa 13-48 and 51-86) plus a calcium (aa 64-75) and zinc (aa 17-22) binding site. There is one potential alternative splice form that shows a 40 aa insertion after Gly48. Full-length human S100A2 shares 89% and 85% aa identity with bovine and canine S100A2, respectively.

PRODUCT SPECIFIC NOTICES

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