

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100P in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) S100A10 or rhS100B is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 357517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100P Met1-Lys95 Accession # P25815
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.

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	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

Human S100P is a 22 kDa, homodimeric member of the S100 family of calcium-binding proteins. The S100 family currently has more than 20 members and belongs to the EF-hand superfamily of molecules. S100P is 95 aa in length and contains short, sequential modules. There is an N-terminal α-helix, a unique EF-hand motif, an α-helix, a linker region, an α-helix, a classic EF-hand motif and a C-terminal α-helix. The EF-hand motif binds calcium, which likely alters molecular conformation. The rearranged S100P now binds ligand with the linker region. Human S100P shares 47% aa sequence identity with rat S100P.

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