

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human S100B in direct ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) S100A1, 2, 6, 7, 10, 11, 13, 16, rmS100A4, 8, 9, or rhS100P.
Source	Monoclonal Mouse IgG _{2A} Clone # 472806
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100B Met1-Glu92 Accession # P04271
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

S100B belongs to the S100 subgroup of the EF-hand family of Ca²⁺ binding proteins. It is a homodimer that is expressed primarily in the brain by astrocytes, oligodendrocytes and Schwann cells. S100B has multiple intracellular functions, but can also be secreted from cells to exert extracellular functions. Some of the extracellular functions of S100B may be mediated by RAGE (receptor for advanced glycation end products). Blood levels of S100B can be used to monitor the extent of brain injury and malignant melanoma.

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