

DESCRIPTION

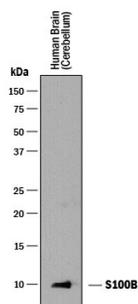
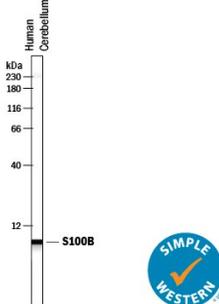
Species Reactivity	Human
Specificity	Detects human S100B in direct ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) S100A1, 2, 6, 7, 10, 11, 13, 16, rhS100A4, 8, 9, or rhS100P.
Source	Monoclonal Mouse IgG _{2A} Clone # 472806
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human S100B Met1-Glu92 Accession # P04271
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below
Simple Western	10 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human S100B by Western Blot. Western blot shows lysate of human brain (cerebellum) tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB1820) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for S100B at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p>  <p>Detection of Human S100B by Simple Western™. Simple Western lane view shows lysates of human brain (cerebellum) tissue, loaded at 0.2 mg/mL. A specific band was detected for S100B at approximately 4 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB1820). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.