

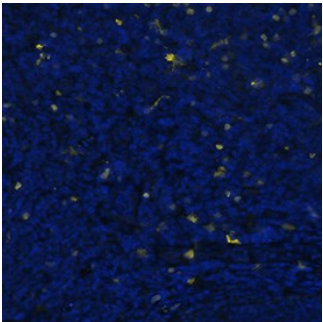
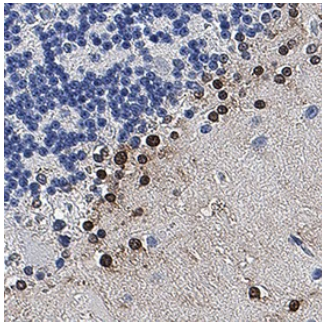
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human S100B in direct ELISAs
Source	Monoclonal Mouse IgG ₁ Clone # 1046234
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human S100B synthetic peptide Accession # P04271
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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
Multiplex Immunofluorescence	0.5 µg/mL	Immersion fixed paraffin-embedded sections of human tonsil
Immunohistochemistry	5-25 µg/mL	Immersion fixed paraffin-embedded sections of human brain (cerebellum)

DATA

<p>Multiplex Immunofluorescence</p>  <p>Detection of S100B in Human Tonsil via Multiplex Immunofluorescence staining on COMET™ S100B was detected in immersion fixed paraffin-embedded sections of human tonsil using Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB18203) at 0.5 µg/mL at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # DR647MS) and counterstained with DAPI (blue; Lunaphore Catalog # DR100). Specific staining was localized to the cytoplasm and nucleus. Protocol available in COMET™ Panel Builder.</p>	<p>Immunohistochemistry</p>  <p>S100B in Human Brain (Cerebellum). S100B was detected in immersion fixed paraffin-embedded sections of human brain (cerebellum) using Mouse Anti-Human S100B Monoclonal Antibody (Catalog # MAB18203) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in stellate cells. Staining was performed using our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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.