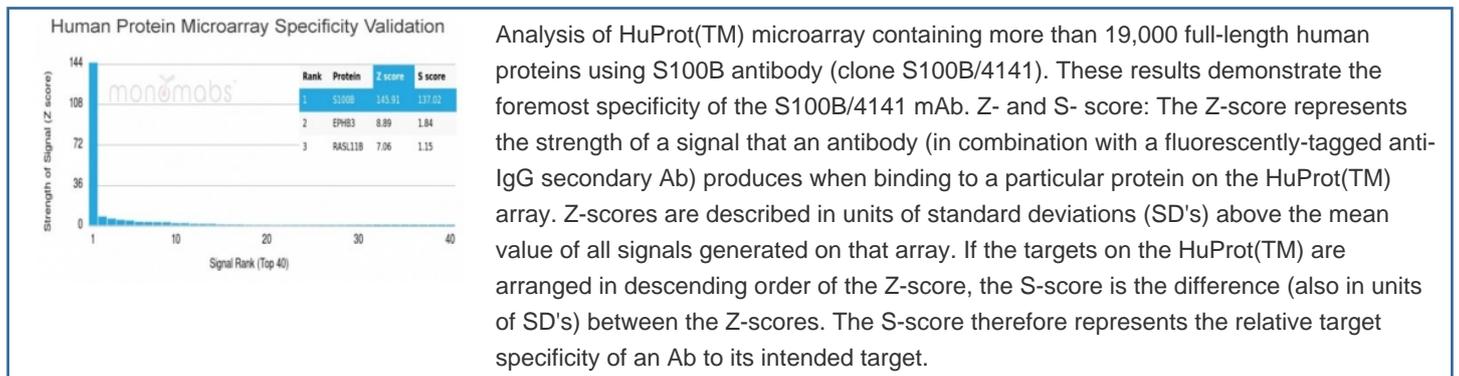


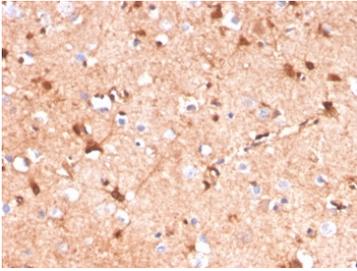
S100B Antibody [clone S100B/4141] (V9289)

Catalog No.	Formulation	Size
V9289-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9289-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9289SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

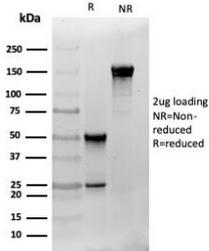
[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c, kappa
Clone Name	S100B/4141
Purity	Protein A/G affinity
UniProt	P04271
Localization	Cytoplasmic, Nuclear
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This S100B antibody is available for research use only.





IHC staining of FFPE human cerebellum tissue with S100B antibody (clone S100B/4141). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free S100B antibody (S100B/4141) as confirmation of integrity and purity.

Description

S100B antibody detects S100 calcium-binding protein B, encoded by the S100B gene. S100B is a dimeric protein primarily expressed in astrocytes, Schwann cells, and melanocytes. It plays roles in intracellular signaling, cytoskeletal organization, and calcium homeostasis. Because S100B is both a marker of glial activation and a biomarker of melanoma, S100B antibody is widely applied in neuroscience, oncology, and pathology.

S100B binds calcium through EF-hand motifs and interacts with target proteins to regulate proliferation, differentiation, and apoptosis. At physiological concentrations, it supports neuronal survival and cytoskeletal dynamics, but at elevated levels, extracellular S100B can contribute to inflammation and neurotoxicity. Its dual role makes it an important molecule for understanding both normal physiology and disease states.

The S100B antibody clone S100B/4141 provides reliable and specific detection. Clone S100B/4141 has been cited in peer-reviewed research examining neurodegenerative diseases, astrocytoma pathology, and melanoma progression. Its reproducibility makes it suitable for immunohistochemistry, immunoblotting, and immunofluorescence, where precise detection of S100B is critical.

Research using clone S100B/4141 has demonstrated how increased S100B levels accompany reactive gliosis in Alzheimer's disease, traumatic brain injury, and other neuropathological conditions. In oncology, S100B detection has clarified how expression in melanomas serves as a prognostic marker and therapeutic indicator. This antibody has also supported developmental studies examining glial maturation and calcium signaling regulation in the nervous system.

NSJ Bioreagents provides this S100B antibody to support neuroscience, oncology, and calcium signaling research. Alternate names include S100 calcium-binding protein B antibody, astrocytic marker antibody, melanoma biomarker antibody, glial activation protein antibody, calcium-binding cytosolic protein antibody, and S100B gene product antibody.

Application Notes

Optimal dilution of the S100B antibody should be determined by the researcher.

Immunogen

A portion of amino acids 3-92 was used as the immunogen for the S100B antibody.

Storage

Aliquot the S100B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.