

Mouse S100B Monoclonal Antibody | anti-S100B antibody

Anti-S100B Antibody, Mouse Monoclonal

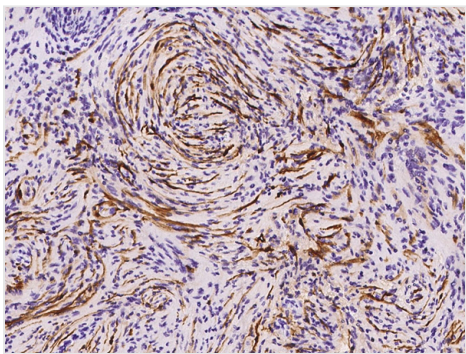
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254259	Mouse	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunohistochemistry

PRODUCT SYNONYMS

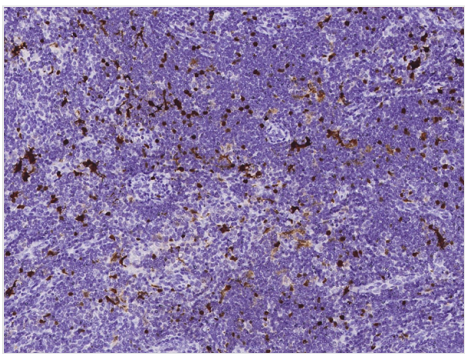
S100B; Monoclonal Antibody; Anti-S100B Antibody; Mouse Monoclonal; S100B Antibody; Mouse MAb; S100 calcium binding protein B; Anti-NEF Antibody; Anti-S100 Antibody; Anti-S100-B Antibody; Anti-S100beta Antibody; anti-S100B antibody

PRODUCT SPECIFICATIONS

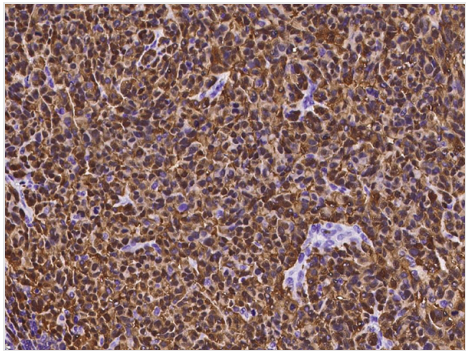
Host	Mouse
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	03
Specificity	Human S100B
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-S100B antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the N-terminus of the Human S100B
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with a synthetic peptide corresponding to the N-terminus of the Human S100B. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IHC (Immunohistochemistry)
Immunochemical staining of human S100B in human cerebellum with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human S100B in human lymphoma with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
Immunochemical staining of human S100B in human malignant melanoma with mouse monoclonal antibody at 1:2000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-S100B antibody	S100B is a member of the S100 family of proteins containing two EF-hand-type calcium-binding motifs. S100B exerts both intracellular and extracellular functions. Intracellular S100B acts as a stimulator of cell proliferation and migration and an inhibitor of apoptosis and differentiation, which might have important implications during brain, cartilage and skeletal muscle development and repair, activation of astrocytes in the course of brain damage and neurodegenerative processes, and of cardiomyocyte remodeling after infarction, as well as in melanomagenesis and gliomagenesis. As an extracellular factor, S100B engages RAGE (receptor for advanced glycation end products) in a variety of cell types with different outcomes (i.e. beneficial or detrimental, pro-proliferative or pro-differentiative) depending on the concentration attained by the protein, the cell type and the microenvironment. This calcium binding astrocyte-specific cytokine, presents a marker of astrocytic activation and reflects CNS injury. The excellent sensitivity of S100B has enabled it to confirm the existence of subtle brain injury in patients with mild head trauma, strokes, and after successful resuscitation from cardiopulmonary arrest. Recent findings provide evidence, that S100B may decrease neuronal injury and/or contribute to repair following traumatic brain injury (TBI). Hence, S100B, far from being a negative determinant of outcome, as suggested previously in the human TBI and ischemia literature, is of potential therapeutic value that could improve outcome in patients who sustain various forms of acute brain damage.
Product Categories/Family for anti-S100B antibody	Calcium-binding Proteins and Related Molecules
References	Kleindienst A, et al. (2006) A critical analysis of the role of the neurotrophic protein S100B in acute brain injury. J Neurotrauma. 23(8): 1185-200. Bloomfield SM, et al. (2007) Reliability of S100B in predicting severity of central nervous system injury. Neurocrit Care. 6(2): 121-38. Donato R, et al. (2009) S100B's double life: intracellular regulator and extracellular signal. Biochim Biophys Acta. 1793(6): 1008-22. Beaudoux JL. (2009) S100B protein: a novel biomarker for the diagnosis of head injury. Ann Pharm Fr. Beaudoux JL. 67(3): 187-94.

NCBI AND UNIPROT INFORMATION

NCBI GI #	12804681
NCBI GeneID	6285
UniProt Accession #	P04271; D3DSN6
Molecular Weight	10,713 Da
NCBI Official Full Name	S100 calcium binding protein B
NCBI Official Synonym Full Names	S100 calcium binding protein B
NCBI Official Symbol	S100B
NCBI Official Synonym Symbols	NEF; S100; S100-B; S100beta
NCBI Protein Information	protein S100-B; S-100 protein subunit beta; S-100 calcium-binding protein, beta chain; S100 calcium-binding protein, beta (neural)
UniProt Protein Name	Protein S100-B
UniProt Gene Name	S100B
UniProt Entry Name	S100B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/s100b-antibody-clone-03-immunohistochemistry-elisa/254259>