

Anti-S100B (Astrocyte and Melanoma Marker) Monoclonal Antibody

Catalog Number: M00979

About S100B

The specificity of this monoclonal antibody to its intended target was validated by HuProt™ Array, containing more than 19,000, full-length human proteins. S100 belongs to the family of calcium binding proteins. S100A and S100B proteins are two members of the S100 family. S100A is composed of an alpha and a beta chain whereas S100B is composed of two beta chains. This antibody is specific against an epitope located on the beta-chain (i.e. in S-100A and S-100B) but not on the alpha-chain of S-100 (i.e. in S-100A and S100A0). This antibody can be used to localize S-100A and S-100B in various tissue sections. S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, as well as in glial cells. Neoplasms derived from these cells also express S-100 protein, albeit non-uniformly. A large number of well-differentiated tumors of the salivary gland, adipose and cartilaginous tissue, and Schwann cell-derived tumors express S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.

Overview

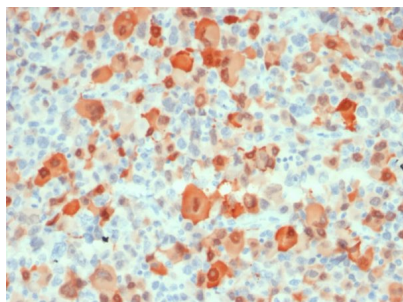
Product Name	Anti-S100B (Astrocyte and Melanoma Marker) Monoclonal Antibody
Reactive Species	Cow, Human, Mouse, Rat
Description	Boster Bio Anti-S100B (Astrocyte and Melanoma Marker) Monoclonal Antibody (Catalog # M00979). Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Cow.
Conjugate	Biotin
Application	IHC, WB
Clonality	Monoclonal Clone: RS100B/1896
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P04271

Technical Details

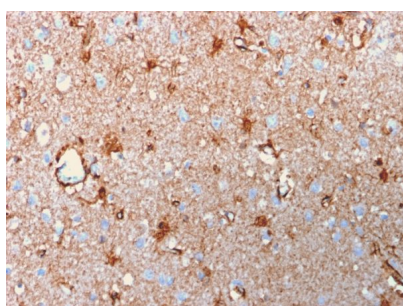
Immunogen	Recombinant full-length human S100B protein
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western Blot (1-2ug/ml) Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes) Optimal dilution for a specific application should be determined.

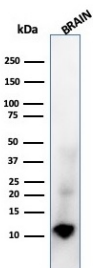
Anti-S100B (Astrocyte and Melanoma Marker) Monoclonal Antibody (M00979) Images



Formalin-fixed, paraffin-embedded human melanoma stained with Anti-S100B Mouse Recombinant Monoclonal Antibody (rS100B/1896).



Formalin-fixed, paraffin-embedded human brain stained with Anti-S100B Mouse Recombinant Monoclonal Antibody (rS100B/1896).



Western blot analysis of human brain tissue lysate using Anti-S100B Mouse Recombinant Monoclonal Antibody (rS100B/1896).

14 Publications Citing This Product

1. PubMed ID: 25666351, Chen Q, Zhang Z, Liu J, He Q, Zhou Y, Shao G, Sun X, Cao X, Gong A, Jiang P. Mol Cells. 2015 Mar;38(3):221-8. Doi: 10.14348/Molcells.2015.2170. Epub 2015 Feb 4. A Fibrin Matrix Promotes The Differentiation Of Emscs Isolated From Nasal Respiratory ...
2. PubMed ID: 26171155, Tang J, Li Q, Cheng B, Huang C, Chen K. Biomed Rep. 2015 Jul;3(4):499-502. Epub 2015 May 27. Effects Of Diethylstilbestrol On The Proliferation And Tyrosinase Activity Of Cultured Human Melanocytes.
3. PubMed ID: 25538758, Xue B, Sun L, Li X, Wang X, Zhang Y, Mu Y, Liang L. Neural Regen Res. 2012 Oct 25;7(30):2340-6. Doi: 10.3969/J.Issn.1673-5374.2012.30.003. Ginsenoside Rb1 Relieves Glucose Fluctuation-Induced Oxidative Stress And Apoptosis In Schwann Cells.

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