

# Product Datasheet

## **S100B Antibody (S100B/1706R) - Azide and BSA Free** **NBP2-54426-100ug**

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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Updated 7/16/2024 v.20.1

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**NBP2-54426-100ug**

S100B Antibody (S100B/1706R) - Azide and BSA Free

**Product Information**

|                      |   |
|----------------------|---|
| <b>Unit Size</b>     | 100 ug  |
| <b>Concentration</b> | 1 mg/ml   |
| <b>Storage</b>       | Store at -20 to -80C. Avoid freeze-thaw cycles. |
| <b>Clonality</b>     | Monoclonal                                      |
| <b>Clone</b>         | S100B/1706R                                     |
| <b>Preservative</b>  | No Preservative                                 |
| <b>Isotype</b>       | IgG Kappa                                       |
| <b>Purity</b>        | Protein A purified                              |
| <b>Buffer</b>        | 10 mM PBS                                       |

**Product Description**

|                                |   |
|--------------------------------|---|
| <b>Description</b>             | 1.0 mg/ml of antibody purified by Protein A. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-53188).<br><br>Antibody with azide store at 2 to 8C. Antibody without azide - store at -20 to -80 C.  |
| <b>Host</b>                    | Rabbit  |
| <b>Gene ID</b>                 | 6285  |
| <b>Gene Symbol</b>             | S100B   |
| <b>Species</b>                 | Human, Mouse, Rat, Bovine, Canine   |
| <b>Marker</b>                  | Astrocyte and Melanoma Marker   |
| <b>Specificity/Sensitivity</b> | 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. |
| <b>Immunogen</b>               | Recombinant full-length human S100B protein (Uniprot: P04271)   |

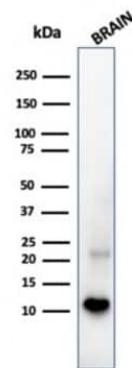
**Product Application Details**

|                              |   |
|------------------------------|---|
| <b>Applications</b>          | Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array  |
| <b>Recommended Dilutions</b> | Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array  |
| <b>Application Notes</b>     | 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 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. |

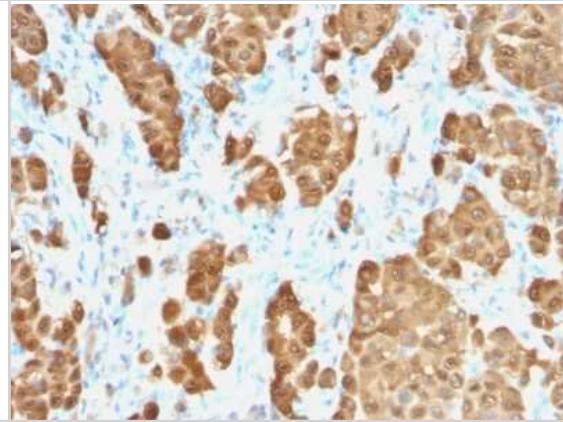


## Images

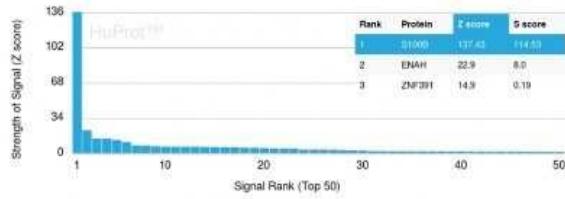
Western Blot: S100B Antibody (S100B/1706R) - Azide and BSA Free [NBP2-54426] - Western blot analysis of human brain tissue lysate using S100B antibody (S100B/1706R).



Immunohistochemistry-Paraffin: S100B Antibody (S100B/1706R) - Azide and BSA Free [NBP2-54426] - Formalin-fixed, paraffin-embedded human Melanoma stained with S100B Rabbit Monoclonal Antibody (S100B/1706R).



Protein Array: S100B Antibody (S100B/1706R) - Azide and BSA Free [NBP2-54426] - Analysis of Protein Array containing more than 19,000 full-length human proteins using S100B Antibody (S100B/1706R) Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5.



## Publications

Deiziane V. S. Costa, Vivaldo Moura-Neto, David T. Bolick, Richard L. Guerrant, Jibraan A. Fawad, Jae H. Shin, Pedro H. Q. S. Medeiros, Solanka E. Ledwaba, Glynis L. Kolling, Conceição S. Martins, Venkat Venkataraman, Cirle A. Warren, Gerly A. C. Brito S100B Inhibition Attenuates Intestinal Damage and Diarrhea Severity During Clostridioides difficile Infection by Modulating Inflammatory Response *Frontiers in Cellular and Infection Microbiology* 2021-09-10 [PMID: 34568098]



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## Products Related to NBP2-54426-100ug

|                |   |
|----------------|---|
| HAF008         | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160         | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP3-07106-5ug | Recombinant Human S100B Protein                     |
| DRG00          | AGER [HRP]  |

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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