

# Product Datasheet

## **S100B Antibody (S100B/1012) - Azide and BSA Free** **NBP2-59619**

Unit Size: 100 ug

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

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**NBP2-59619**

S100B Antibody (S100B/1012) - Azide and BSA Free

**Product Information**

<b>Unit Size</b>	100 ug
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	S100B/1012
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS

**Product Description**

<b>Description</b>	Human Chromosome Location: 21q22.3  1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-59618).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	6285
<b>Gene Symbol</b>	S100B
<b>Species</b>	Human, Mouse, Rat, Bovine
<b>Marker</b>	Astrocyte and Melanoma Marker
<b>Specificity/Sensitivity</b>	The specificity of this monoclonal antibody to its intended target was validated by HuProtTM 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.
<b>Immunogen</b>	Recombinant full-length human S100B protein (Uniprot: P04271)

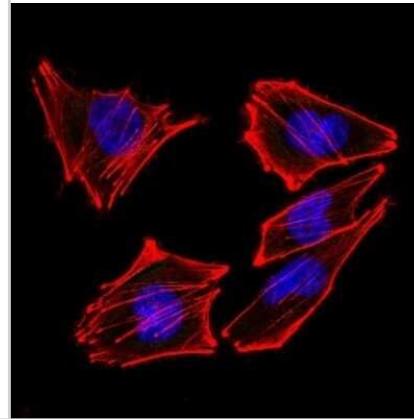
**Product Application Details**

<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-ready
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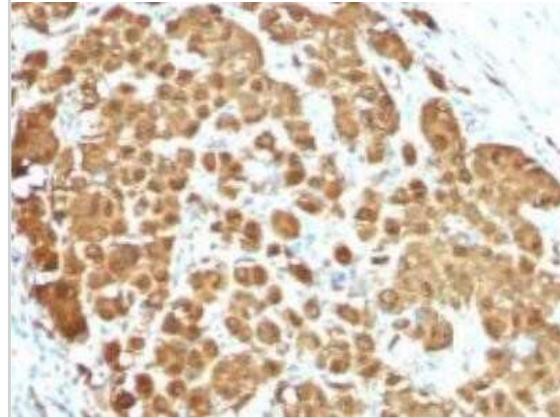
<b>Recommended Dilutions</b>	Western Blot 0.5-1 ug/ml, Flow Cytometry 0.5-1 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml, Protein Array, CyTOF-ready
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/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

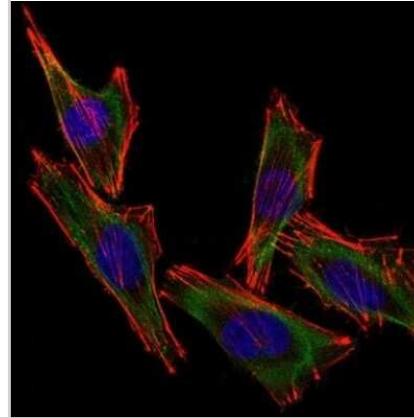
Immunocytochemistry/Immunofluorescence: S100B Antibody (S100B/1012) - Azide and BSA Free [NBP2-59619] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Antibody (S100B/1012) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue). (Negative Control)



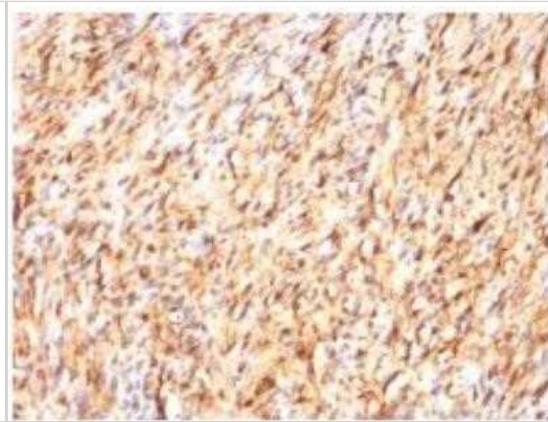
Immunohistochemistry-Paraffin: S100B Antibody (S100B/1012) - Azide and BSA Free [NBP2-59619] - Formalin-fixed. Paraffin-embedded human Melanoma stained with S100B Mouse Monoclonal Antibody (S100B/1012).



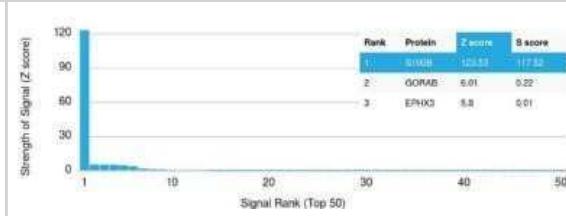
Immunocytochemistry/Immunofluorescence: S100B Antibody (S100B/1012) - Azide and BSA Free [NBP2-59619] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Antibody (S100B/1012) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry-Paraffin: S100B Antibody (S100B/1012) - Azide and BSA Free [NBP2-59619] - Formalin-fixed, paraffin-embedded human Schwanoma stained with S100B Mouse Monoclonal Antibody (S100B/1012).



Protein Array: S100B Antibody (S100B/1012) - Azide and BSA Free [NBP2-59619] - Analysis of Protein Array containing more than 19,000 full-length human proteins. Z- and S- Score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary) produces when binding to a particular protein on the HuProt array. Z-scores are described in units of standard deviations above the mean value of all signals generated on that array. If targets on HuProt are arranged in descending order of the Z-score, the S-score is the difference between the Z-score. S-score therefore represents the relative target specificity of an Ab to its intended target. An Ab is considered to specific to its intended target, if the Ab has an S-score of at least 2.5.





## Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

## Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

## Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

## General Contact Information

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

## Products Related to NBP2-59619

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP3-07106-5ug	Recombinant Human S100B Protein

## 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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