

Product Datasheet

S100B Antibody (S100B/1012) NBP2-59618-100ug

Unit Size: 100 ug

Store at 4C.

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NBP2-59618-100ug

S100B Antibody (S100B/1012)

Product Information

Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	S100B/1012
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description

Description	Human Chromosome Location: 21q22.3 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-59619) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	6285
Gene Symbol	S100B
Species	Human, Mouse, Rat, Bovine
Marker	Astrocyte and Melanoma Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant full-length human S100B protein (Uniprot: P04271)

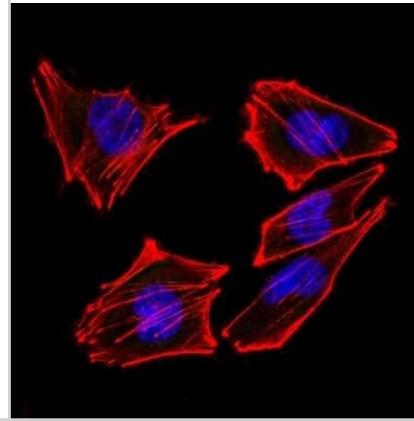
Product Application Details

Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
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Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml, Protein Array 1:100-1:2000
Application Notes	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

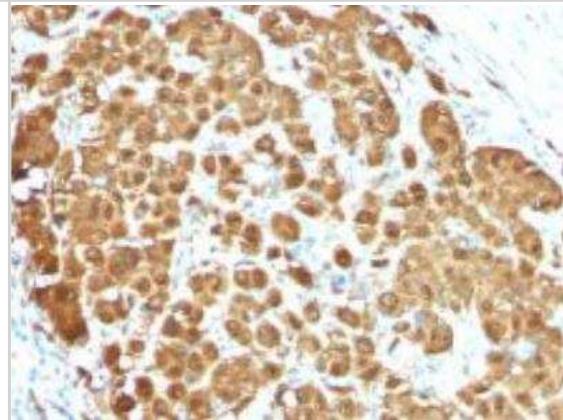
Immunocytochemistry/Immunofluorescence: S100B Antibody (S100B/1012) [NBP2-59618] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue). (Negative Control)



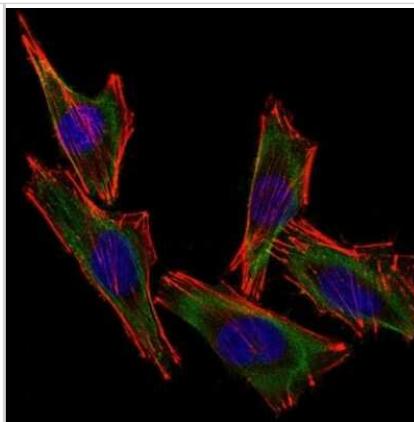
Protein Array: S100B Antibody (S100B/1012) [NBP2-59618] - containing more than 19,000 full-length human proteins. Z- and S- Score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary) produces when binding to a particular protein 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. For example, if Ab binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Ab to protein X is equal to 29



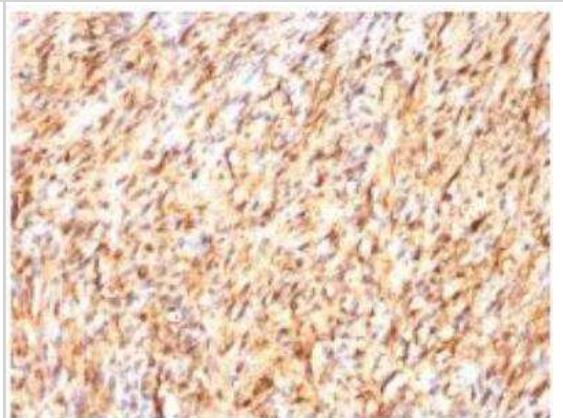
Immunohistochemistry-Paraffin: S100B Antibody (S100B/1012) [NBP2-59618] - Formalin-fixed. Paraffin-embedded human Melanoma stained with S100B Mouse Monoclonal Antibody (S100B/1012).



Immunocytochemistry/Immunofluorescence: S100B Antibody (S100B/1012) [NBP2-59618] - 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) [NBP2-59618] - Formalin-fixed, paraffin-embedded human Schwannoma stained with S100B Mouse Monoclonal Antibody (S100B/1012).





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Products Related to NBP2-59618-100ug

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)
NBP2-35319-100ug	Recombinant Rhesus Macaque 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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