

# Product Datasheet

## **S100B Antibody (4C4.9 + S100B/1012) NBP2-53187-100ug**

Unit Size: 100 ug

Store at 4C.

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**NBP2-53187-100ug**

S100B Antibody (4C4.9 + S100B/1012)

**Product Information**

<b>Unit Size</b>	100 ug
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4C4.9 + S100B/1012
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG2a Kappa/IgG2a Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA

**Product Description**

<b>Description</b>	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. (NBP2-54559)  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>	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>	Purified bovine brain S100 protein (4C4.9); Recombinant full-length human S100B protein (S100B/1012) (Uniprot: P04271)

**Product Application Details**

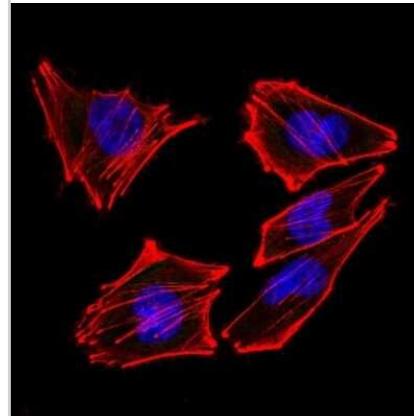
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 0.25-0.5 ug/ml

**Application Notes**

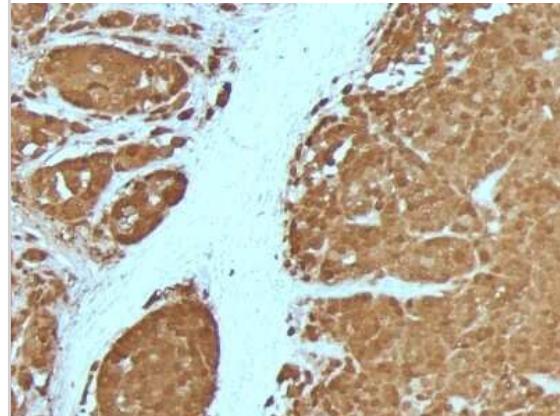
Immunohistochemistry (Formalin-fixed): 0.25-0.5ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

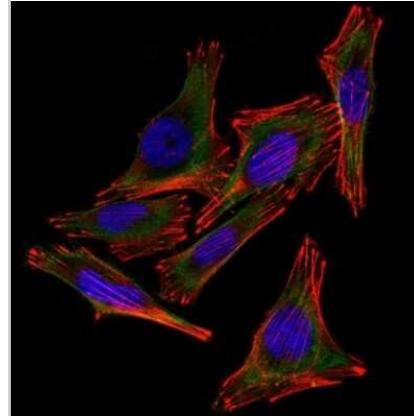
Immunocytochemistry/Immunofluorescence: S100B Antibody (4C4.9 + S100B/1012) [NBP2-53187] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Antibody (4C4.9 + S100B/1012) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue). (Negative Control)



Immunohistochemistry-Paraffin: S100B Antibody (4C4.9 + S100B/1012) [NBP2-53187] - Formalin-fixed, paraffin-embedded human Melanoma stained with S100B Mouse Monoclonal Antibody (4C4.9 + S100B/1012)



Immunocytochemistry/Immunofluorescence: S100B Antibody (4C4.9 + S100B/1012) [NBP2-53187] - Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Antibody (4C4.9 + S100B/1012) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).

**Publications**

Po JW, Ma Y, Balakrishna B et al. Immunomagnetic isolation of circulating melanoma cells and detection of PD-L1 status. PLoS One. 2019-02-08 [PMID: 30735560] (FLOW, Human)

**Details:**

Citation using the Azide and BSA Free form of this antibody.



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## Products Related to NBP2-53187-100ug

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
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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