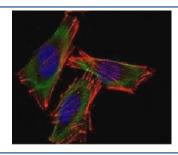


# **S100B Antibody [clone PS1B1-1] (V3506)**

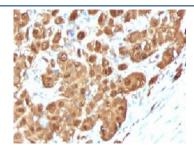
Catalog No.	Formulation	Size
V3506-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3506-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3506SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3506IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

## **Bulk quote request**

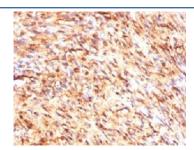
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PS1B1-1
Purity	Protein G affinity chromatography
UniProt	P04271
Localization	Cytoplasmic, nuclear
Applications	Immunofluorescence : 1-2ug/ml Immunohistology (FFPE) : 1-2ug/ml for 30 min at RT Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This S100B antibody is available for research use only.



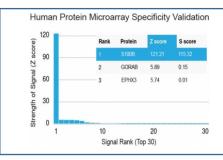
Confocal Immunofluorescent analysis of A2058 cells using Alexa Fluor 488-labeled S100B antibody (green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



IHC testing of FFPE human melanoma with S100B antibody (clone PS1B1-1). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human schwanoma with S100B antibody (clone PS1B1-1). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.



Protein array validation of the S100B antibody: Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using S100B antibody (clone PS1B1-1). These results demonstrate the foremost specificity of the PS1B1-1 mAb.

### **Description**

S100 proteins are localized in the cytoplasm and nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100B may function in neurite extension, proliferation of melanoma cells, stimulation of Ca2+ fluxes, inhibition of PKC-mediated phosphorylation, astrocytosis and axonal proliferation, and inhibition of microtubule assembly. In the developing CNS it acts as a neurotrophic factor and neuronal survival protein. In the adult organism it is usually elevated due to nervous system damage, which makes it a potential clinical marker. [Wiki]

### **Application Notes**

Optimal dilution of the S100B antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

#### **Immunogen**

Recombinant full-length human S100B protein was used as the immunogen for the S100B antibody.

#### **Storage**

Store the S100B antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).