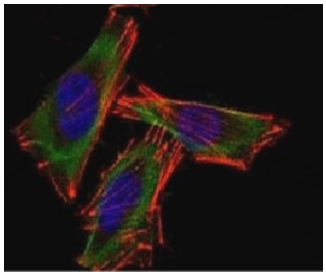
S100B Antibody [clone PS1B1-1] (V3506)

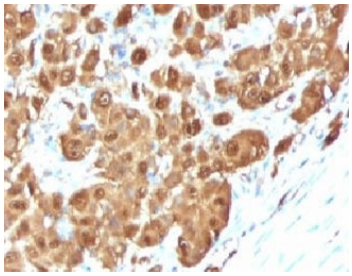
Catalog No.	Formulation	Size
V3506-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3506-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3506SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3506IHC-7ML	Prediluted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

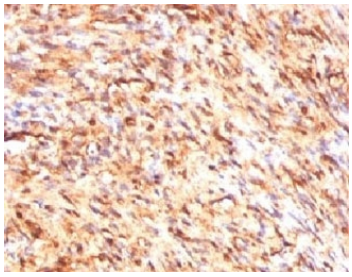
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	PS1B1-1
Purity	Protein G affinity chromatography
UniProt	P04271
Localization	Cytoplasmic, nuclear
Applications	Immunofluorescence : 1-2ug/ml Immunohistology (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.



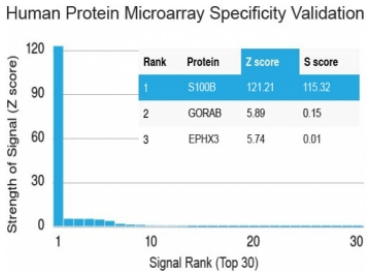
Confocal Immunofluorescent analysis of A2058 cells using Alexa Fluor 488-labeled S100B antibody (green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



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).