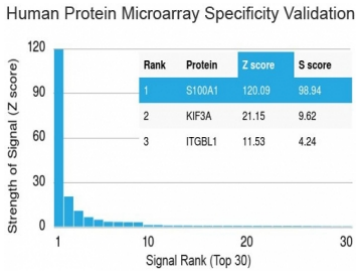
S100A1 Antibody [clone S100A1/1942] (V3504)

Catalog No.	Formulation	Size
V3504-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3504-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3504SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3504IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

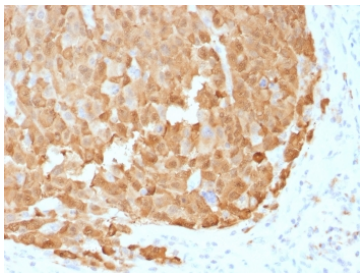
Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	S100A1/1942
Purity	Protein G affinity chromatography
UniProt	P23297
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE-not Suitable For Frozen Tissues) : 0.5-1ug/ml for 30 min at RT
Limitations	This S100A1 antibody is available for research use only.



Protein array validation of the S100A1 antibody: Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using S100A1 antibody (clone S100A1/1942). These results demonstrate the foremost specificity of the S100A1/1942 mAb.

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 Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC testing of FFPE human melanoma with S100A1 antibody (clone S100A1/1942). Required HIER: steam sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling.

Description

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 beta chain whereas S100B is composed of two beta chains. This antibody is specific against an epitope located on the alpha-chain, but not on the beta-chain, of S100. This antibody can be used to localize S-100A in various tissue sections. S100 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.

Application Notes

The optimal dilution of the S100A1 antibody for each application 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

Human recombinant S100A1 full length protein was used as the immunogen for this S100A1 antibody.

Storage

Store the S100A1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).