

Datasheet for ABIN6940539

anti-S100A1 antibody

4 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	S100A1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100A1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human full-length S100A1 protein
Clone:	S100A1-1942
Isotype:	IgG1 kappa
Specificity:	<p>The specificity of this monoclonal antibody to its intended target was validated by HuProt™ 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 alpha-chain (i.e. in S-100A and S-100B) but not on the beta-chain of S-100 (i.e. in S-100B). This antibody can be used to localize S-100A in various tissue sections. S-100 protein has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, epithelial and myoepithelial cells of the breast, salivary and sweat glands. Neoplasms derived from these cells also express S-100 protein. Almost all malignant melanomas and</p>

Product Details

cases of histiocytosis X are positive for S-100 protein.

Purification: Purified by Protein A/G

Target Details

Target: S100A1

Alternative Name: S100A1 ([S100A1 Products](#))

Molecular Weight: 10-12kDa

Gene ID: 6271

UniProt: [P23297](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Toll-Like Receptors Cascades](#), [S100 Proteins](#)

Application Details

Application Notes: Positive Control: A431 or HT-29 cells. Brain or Melanoma.
Known Application: Immunohistochemistry (Formalin-fixed. Not suitable for frozen tissues.)
(0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

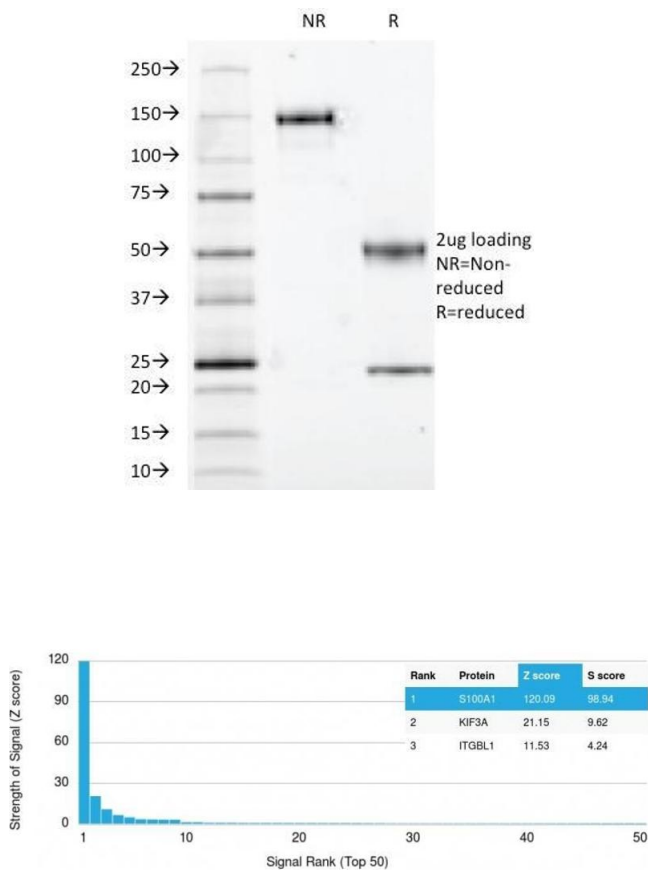
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

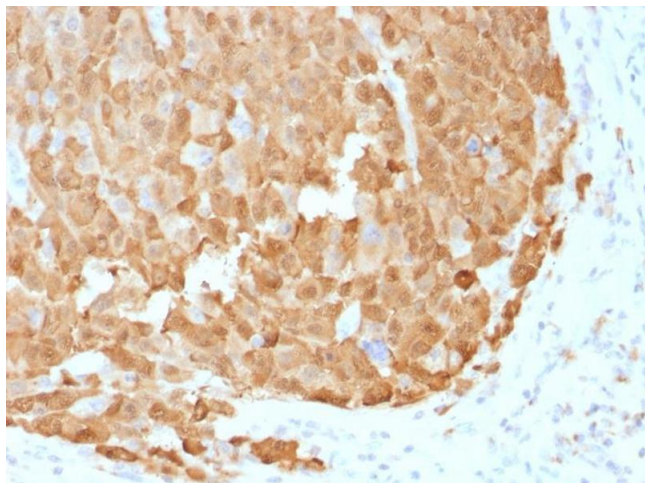


SDS-PAGE

Image 1. SDS-PAGE Analysis Purified S100A1 Mouse Monoclonal Antibody (S100A1/1942). Confirmation of Purity and Integrity of Antibody.

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using S100A1 Mouse Monoclonal Antibody (S100A1/1942). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) 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 (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Melanoma stained with S100A1 Mouse Monoclonal Antibody (S100A1/1942).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940539.