

S100B Antibody

Catalog No: tcna1307



Available Sizes

Size: 20ug

Size: 100ug



Specifications

Application:

FACS, IF, WB, IHC-P

Species Reactivity:

Human, Mouse, Rat, Cow. Other species not known.

Host Species:

Mouse

Immunogen / Amino acids:

Recombinant full-length human protein was used as the immunogen for the S100 beta antibody.

Conjugation:

Unconjugated

Clonality:

Monoclonal

Clones:

S100B/1012

Isotype:

Mouse IgG2a, kappa

Form:

Liquid

Storage Buffer:

0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide

Concentration:

0.2 mg/ml

Recommended Dilution:

Flow Cytometry: 0.5-1ug/million cells in 0.1ml

Immunofluorescence: 1-2ug/ml

Western blot: 0.5-1ug/ml

Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT

Prediluted IHC only format: incubate for 30 min at RT (1)Optimal dilution of the S100 beta 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.

Storage Instruction:

Store the S100 beta antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

SwissProt:

P04271

References

Protein G affinity chromatography

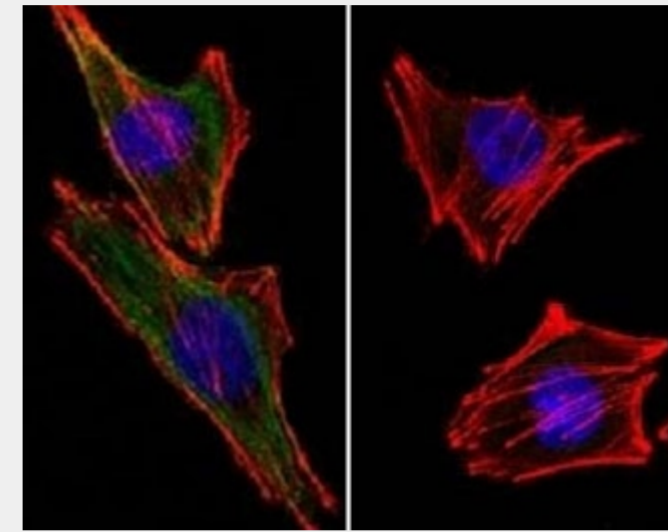
Product Description

S100 belongs to the family of calcium binding proteins. S100 alpha and S100 beta 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 S100A and S100B) but not on the alpha-chain of S100 (i.e. in S100A and S100A0). This antibody can be used to localize S100A and S100B 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. Neoplasms derived from these cells also express S100 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 S100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S100 protein.

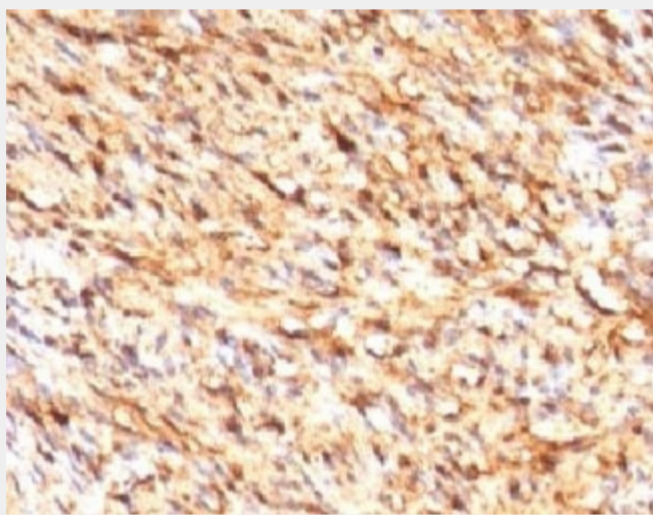
Human Protein Microarray Specificity Validation



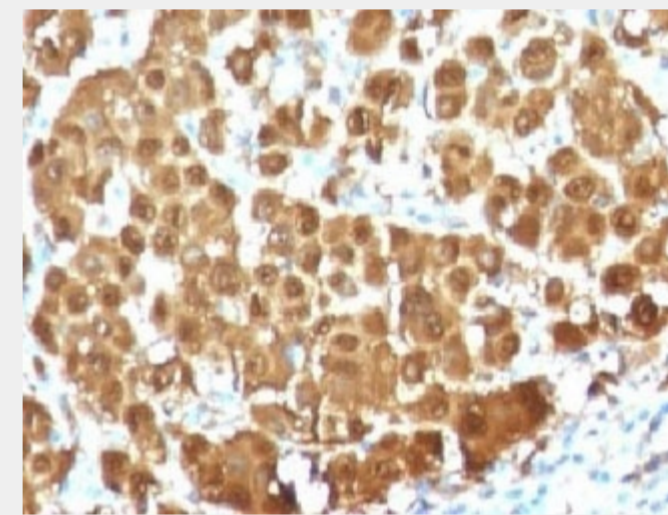
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using S100 beta antibody (clone S100B/1012). Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding 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.



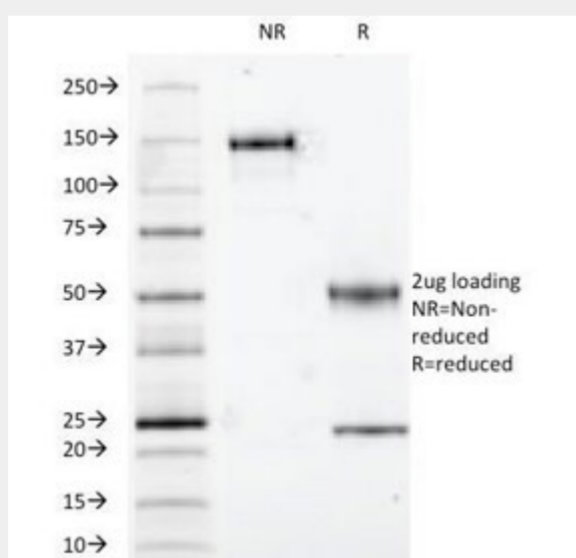
(Left) Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100 beta antibody (green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue). (Right) Negative control.



IHC testing of FFPE human schwannoma with S100 beta antibody (clone S100B/1012). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human melanoma with S100 beta antibody (clone S100B/1012). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE Analysis of Purified, BSA-Free S100 beta Antibody (clone S100B/1012). Confirmation of Integrity and Purity of the Antibody.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!