Datasheet for ABIN6940560

Recombinant anti-S100B antibody

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	S100B
Reactivity:	Human, Rat, Mouse, Cow
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This S100B antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human S100B protein
Clone:	S100B-1706R
Isotype:	IgG
Specificity:	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 beta-chain (i.e. in S-100A and S-100B) but not on the alpha-chain of S-100 (i.e. in S-100A and S100A0). This antibody can be used to localize S-100A and S-100B in various tissue sections. S-100 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

Product Details

derived from these cells also express S-100 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 S-100 protein. Almost all malignant melanomas and cases of histiocytosis X are positive for S-100 protein.

Target Details

Target:	S100B
Alternative Name:	S100B (S100B Products)
Molecular Weight:	10-12kDa
Gene ID:	6285
UniProt:	P04271
Pathways:	Regulation of Muscle Cell Differentiation, Positive Regulation of Immune Effector Process, Toll-Like Receptors Cascades, Regulation of long-term Neuronal Synaptic Plasticity, S100 Proteins

Application Details

Application Notes:	Positive Control: Brain, Melanoma. Known Application: Immunohistochemistry (Formalin-fixed) (0.5-1.0 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

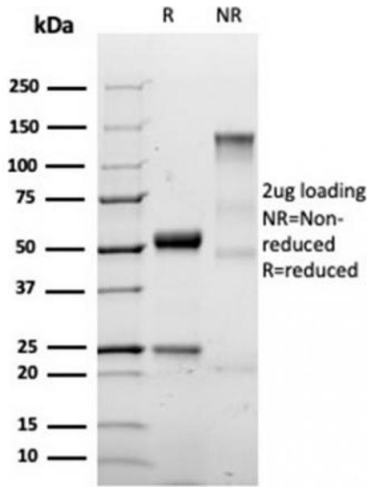
Handling

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.

Handling

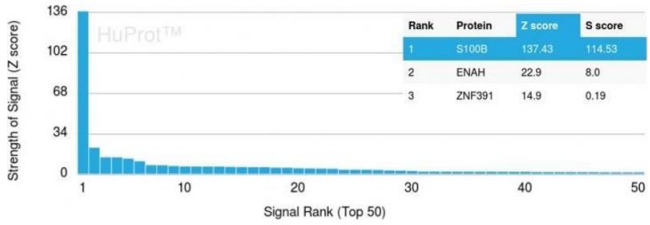
Expiry Date:	24 months

Images



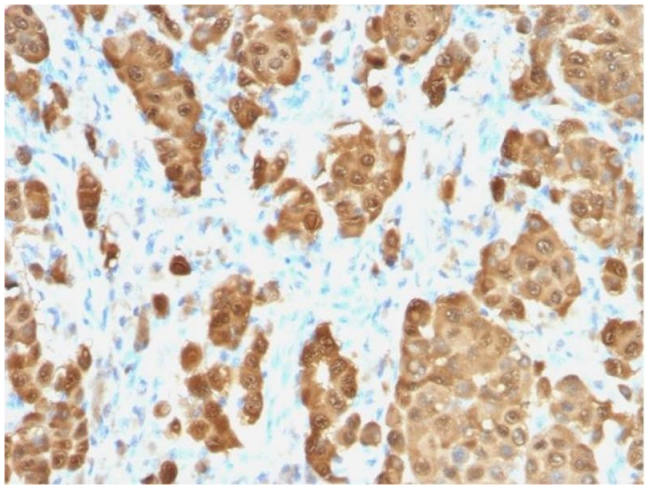
Western Blotting

Image 1. SDS-PAGE Analysis Purified S100B Recombinant Rabbit Monoclonal Antibody (S100B/1706R). 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 S100B-Monospecific Recombinant Rabbit Monoclonal Antibody (S100B/1706R) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody 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 Monoclonal Antibody to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Melanoma stained with S100B-Monospecific Recombinant Rabbit Monoclonal Antibody (S100B/1706R).

Please check the product details page for more images. Overall 4 images are available for ABIN6940560.

