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Datasheet for ABIN6940555 anti-S100B antibody

5 Images



Overview

Quantity:	100 µg
Target:	S100B
Reactivity:	Human, Rat, Mouse, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This S100B antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Purified bovine brain S100 protein
Clone:	4C4-9
lsotype:	lgG2a kappa
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
	derived from these cells also express S-100 protein, albeit non-uniformly. A large number of

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Product Details	
	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.
Purification:	Purified by Protein A/G
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

Preservative:

Storage:

Application Notes:	Positive Control: Brain, Melanoma.
	Known Application: Flow Cytometry (0.5-1 μ g/million cells), Immunofluorescence (1-2 μ g/mL),
	Western Blot (0.5-1 μ g/mL), Immunohistochemistry (Formalin-fixed) (0.25-0.5 μ g/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.

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

4 °C,-80 °C

Sodium azide

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Handling

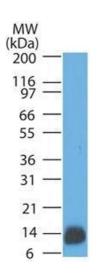
Storage Comment:

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

Images



Western Blotting

Image 1. Western Blot Analysis of human brain lysate using S100B Mouse Monoclonal Antibody (4C4.9).



Image 2. Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled Isotype Control Monoclonal Antibody (IgG2a) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue). (Negative Control)

Immunofluorescence

Image 3. Confocal Immunofluorescent analysis of A2058 cells using AF488-labeled S100B Monoclonal Antibody (4C4.9) (Green). F-actin filaments were labeled with DyLight 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).

Please check the product details page for more images. Overall 5 images are available for ABIN6940555.

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