


Product datasheet

Anti-S100 beta antibody [4C4.9] ab218513

★★★★☆ [1 Abreviews](#) [2 References](#) [3 Images](#)

Overview

Product name	Anti-S100 beta antibody [4C4.9]
Description	Mouse monoclonal [4C4.9] to S100 beta
Host species	Mouse
Tested applications	Suitable for: ICC, WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow 
Immunogen	Full length native protein (purified) within Cow S100 beta aa 1 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. (Purified from bovine brain). Database link: P02638 Run BLAST with Run BLAST with
Positive control	IHC-P: Human melanoma tissue. ICC: A2058 cells. WB: Human brain lysate.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, 99% PBS
Purity	Protein A/G purified
Purification notes	ab218513 is purified from Bioreactor Concentrate by Protein A/G.

Clonality	Monoclonal
Clone number	4C4.9
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab218513 in the following tested applications.

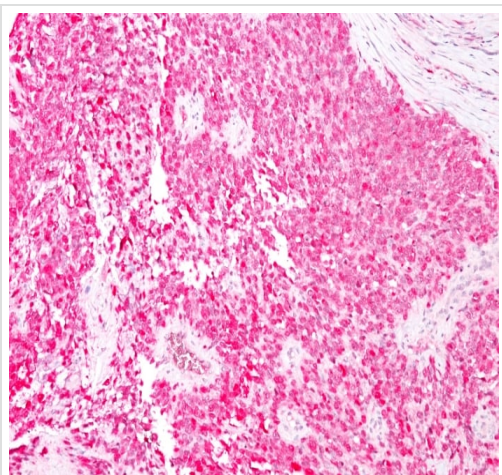
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC	★★★★☆ (1)	Use a concentration of 1 - 2 µg/ml.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 11 kDa.
IHC-P		Use a concentration of 0.25 - 0.5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

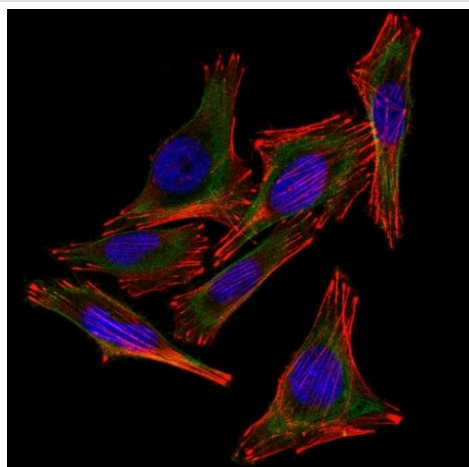
Function	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds to and initiates the activation of STK38 by releasing autoinhibitory intramolecular interactions within the kinase. Interaction with AGER after myocardial infarction may play a role in myocyte apoptosis by activating ERK1/2 and p53/TP53 signaling.
Tissue specificity	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
Sequence similarities	Belongs to the S-101 family. Contains 2 EF-hand domains.
Cellular localization	Cytoplasm. Nucleus.

Images



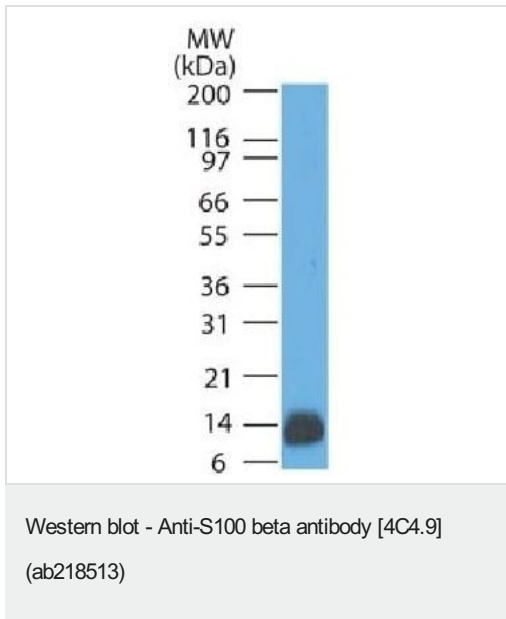
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human melanoma tissue labeling S100 beta with ab218513 at 0.5 µg/mL.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody [4C4.9] (ab218513)



Immunocytochemistry analysis of human A2058 cells labeling S100 beta with ab218513 at 1 µg/ml.

Immunocytochemistry - Anti-S100 beta antibody [4C4.9] (ab218513)



Anti-S100 beta antibody [4C4.9] (ab218513) at 1 µg/ml + Human brain lysate

Predicted band size: 11 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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