




Product datasheet

Anti-S100 beta antibody [S100B/1012] - BSA and Azide free ab218956

[1 References](#) [3 Images](#)

Overview

Product name	Anti-S100 beta antibody [S100B/1012] - BSA and Azide free
Description	Mouse monoclonal [S100B/1012] to S100 beta - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: Protein Array, IHC-P
Species reactivity	<p>Reacts with: Human</p> <p>Predicted to work with: Mouse, Rat, Rabbit, Cow </p>
Immunogen	<p>Recombinant full length protein corresponding to Human S100 beta aa 1-92. Sequence:</p> <p>MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNE LSHFLEEIKE QEVVDKVMETLDNDGDGECDFQEFMAFVAMVTTACHEF FEHE</p> <p>Database link: P04271</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	Human melanoma and schwannoma tissues.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p>

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, as well as 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	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Purification notes	ab218956 was purified from Bioreactor Concentrate by Protein A/G.
Clonality	Monoclonal
Clone number	S100B/1012
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab218956** 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
Protein Array		Use at an assay dependent concentration.
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. (Primary incubation for 30 min at RT).

Target

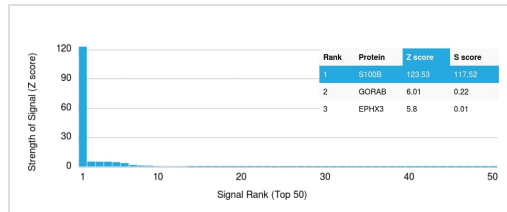
Function	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. Binds 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



Protein Array - Anti-S100 beta antibody

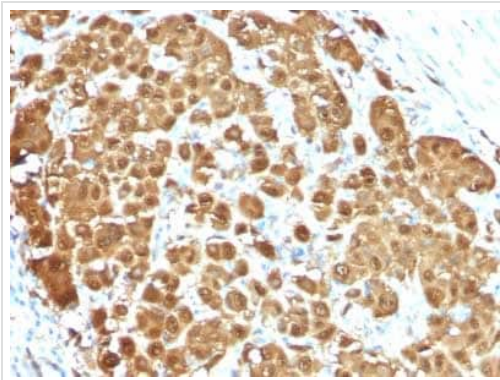
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This data was produced with [ab218515](#), the same antibody in a different formulation with BSA and Azide.

[ab218515](#) was tested in protein array against over 19000 different full-length human proteins.

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.

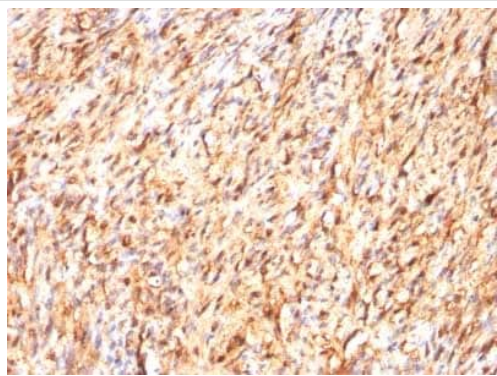
A MAb is specific to its intended target if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody

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Immunohistochemical analysis of formalin-fixed, paraffin-embedded human melanoma tissue labeling S100 beta with [ab218956](#) at 0.5 µg/ml.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human schwannoma tissue labeling S100 beta with ab218956 at 0.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody [S100B/1012] - BSA and Azide free (ab218956)

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