




## Product datasheet

### Anti-S100 beta antibody [S100B/1012] ab218515

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#### Overview

<b>Product name</b>	Anti-S100 beta antibody [S100B/1012]
<b>Description</b>	Mouse monoclonal [S100B/1012] to S100 beta
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> Protein Array, ICC, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Cow 
<b>Immunogen</b>	Recombinant full length protein corresponding to Human S100 beta aa 1 to the C-terminus. Database link: <a href="#">P04271</a> <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	IHC-P: Human melanoma and schwannoma tissues. ICC: Human A2058 cells.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.05% BSA, 99% PBS
<b>Purity</b>	Protein A/G purified
<b>Purification notes</b>	ab218515 is purified from Bioreactor Concentrate by Protein A/G.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	S100B/1012

<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

## Applications

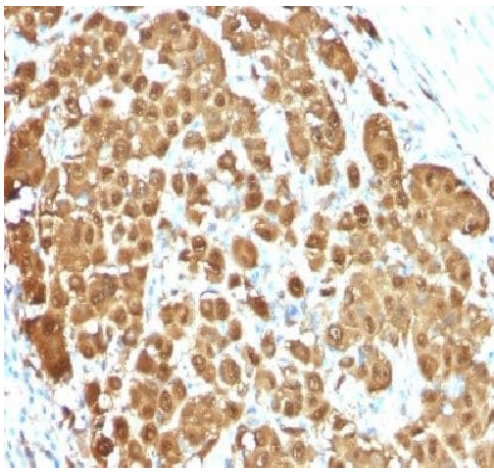
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab218515 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Protein Array		Use at an assay dependent concentration.
ICC		Use a concentration of 1 - 2 µg/ml.
IHC-P		Use a concentration of 0.25 - 0.5 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## Target

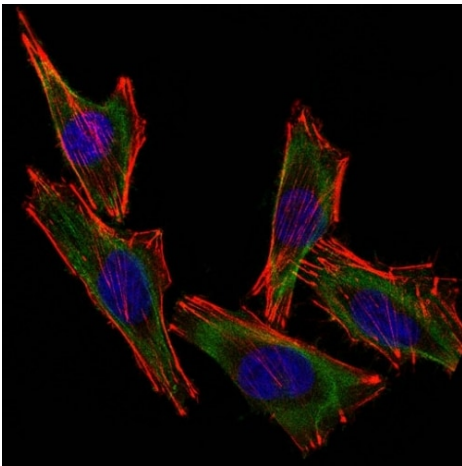
<b>Function</b>	Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. 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.
<b>Tissue specificity</b>	Although predominant among the water-soluble brain proteins, S100 is also found in a variety of other tissues.
<b>Sequence similarities</b>	Belongs to the S-101 family. Contains 2 EF-hand domains.
<b>Cellular localization</b>	Cytoplasm. Nucleus.

## Images



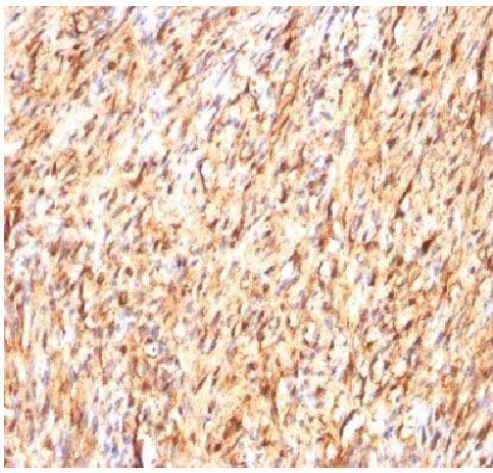
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody  
[S100B/1012] (ab218515)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human melanoma tissue labeling S100 beta with ab218515 at 0.5 µg/mL.



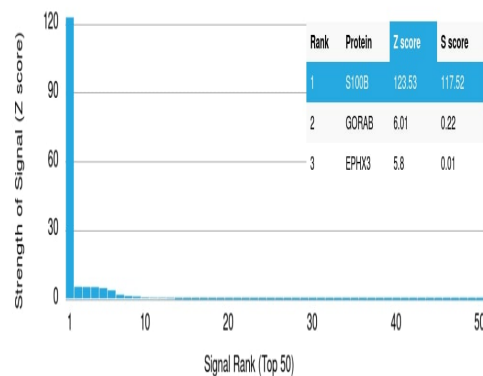
Immunocytochemistry - Anti-S100 beta antibody  
[S100B/1012] (ab218515)

Immunocytochemistry analysis of A2058 (human epithelial melanoma cell line) cells labeling S100 beta with ab218515 conjugated to AF488 (green). F-actin filaments were labeled with DyLight® 554 Phalloidin (red). DAPI was used to stain the cell nuclei (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody  
[S100B/1012] (ab218515)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human schwannoma tissue labeling S100 beta with ab218515 at 0.5 µg/mL.



Protein Array - Anti-S100 beta antibody  
[S100B/1012] (ab218515)

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.

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