


Anti-S100 beta antibody ab41548

★★★★★ [17 Abreviews](#) [98 References](#) [3 Images](#)

Overview

Product name	Anti-S100 beta antibody
Description	Rabbit polyclonal to S100 beta
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help. You may also be interested in our alternative recombinant antibody, ab52642 .
Tested applications	Suitable for: IHC-P, WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Zebrafish Predicted to work with: Rabbit, Cow, Human, Pig, Chinese hamster 
Immunogen	Synthetic peptide corresponding to Rat S100 beta aa 50 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab41547)
General notes	<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&As</p>

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab41548 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

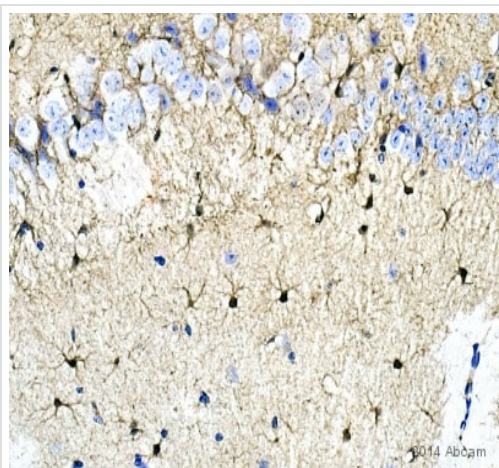
Application	Abreviews	Notes
IHC-P	★★★★★ (10)	Use at an assay dependent concentration.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 9 kDa (predicted molecular weight: 11 kDa).

Application notes Is unsuitable for ICC/IF.

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

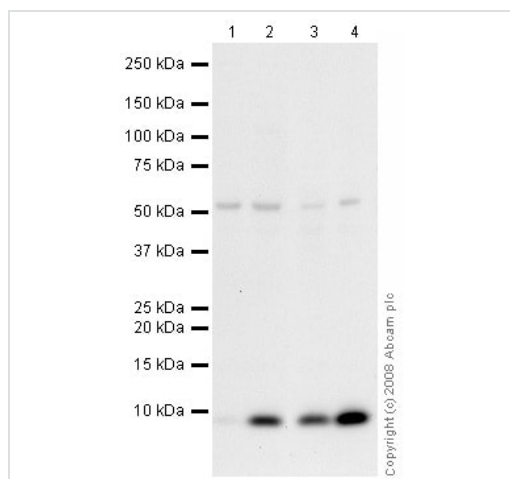


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody - Astrocyte Marker (ab41548)

This image is courtesy of an Abreview submitted by Carl Hobbs

ab41548 staining S100 beta in mouse brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/10000 in TBS/BSA/azide) for 2 hours at 21°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/250) was used as the secondary antibody.

At this dilution factor, there is very good delineation of astrocyte processes.



Western blot - Anti-S100 beta antibody - Astrocyte Marker (ab41548)

All lanes : Anti-S100 beta antibody (ab41548) at 1 µg/ml

Lane 1 : Brain (Mouse) Tissue Lysate

Lane 2 : Brain (Rat) Tissue Lysate

Lane 3 : Spinal Cord (Mouse) Tissue Lysate

Lane 4 : Spinal Cord (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

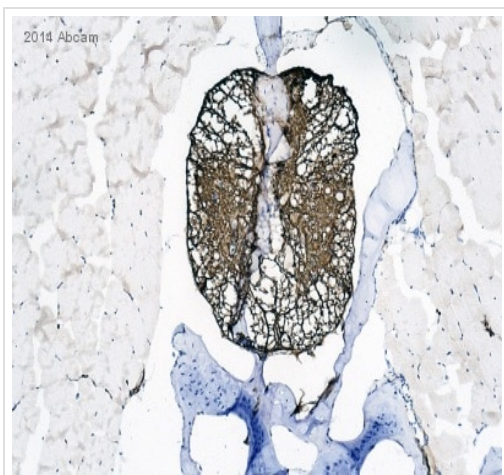
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 11 kDa

Observed band size: 9 kDa

Additional bands at: 52 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100 beta antibody - Astrocyte Marker (ab41548)

Image courtesy of Carl Hobbs, King College London, U.K.

ab41548 staining S100 beta in Zebrafish body, showing T/S of spinal cord region by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 1% BSA for 10 minutes; antigen retrieval was by heat mediation in citric acid. Samples were incubated with primary antibody (1/10000 in TBS/BSA/azide) for 2 hours at 21°C. A Biotin-conjugated goat anti-rabbit IgG polyclonal (1/250) was used as the secondary antibody.

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